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acctgnacaa gctttta 557

<210> 7403

<211> 544

<212> DNA

<213> Homo sapiens

<400> 7403

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ggccagnct ctggatatcc ttttttttaa ttttttagag caagacgtat ttcaacgact 480
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<210> 7404

<211> 420

<212> DNA

<213> Homo sapiens

<400> 7404

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 attttttgaa aaacccggta gactttgcgg tgaccatttt tgttgtactt tttttttttt 360
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<210> 7405

<211> 525

<212> DNA

<213> Homo sapiens

<400> 7405

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<210> 7406

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7406

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 ctttaaaagg gcccggttt 559

<210> 7407

<211> 533

<212> DNA

<213> Homo sapiens

<400> 7407

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 ggctacaggc caacaaagag caaatggtac agtgagagat gtgacaggcg angtaaagca 480
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<210> 7408

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7408

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ccaatttagt aaccagaaag gaatagatcg gcctggcgtg gtagctcatg cttgtgatcc  180
cagcactgtg gacggccgag cgcggcgatc gattgagcct aggacttcca gaccggcctg  240
ggcaacgtgg tgaaacactg tctttttttt tttttttttt ttttgagtgg agtttcgctc  300
gttttgcagg ctggagtgca gtggcgtggg ctcgactcac cgnggcctcc acctnccggg  360
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tgccagctaa ttttgggttt atttttttgg taaaaacngg gtttttcgng ttgggcaagc  480
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<210> 7409

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7409

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ggaatacagg catgtgccac cagcctggc taatttttgt attttagta gagatggggg  180
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cctcccaaag agctgggatt ataggcggga gccatggcac tcggccctat tttgcccgtt  300
ttcttgagac atcttaaatg aacatatagc ttcaggaagc catggtagca gacaggacca  360
cagtgccttc cgtgatgtgg cccgtctcct agagtccagc agaccggacc ttcgcaagaa  420
aaactgctga ggagatggag aangaaaggc ccaaagcctg gtattcactt caaaagcnag  480
cgctgangan atggaggaag ggcnaaaacc tggatattac ttanangca gccttaagaa  540
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ttgganga

548

<210> 7410

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7410

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ttaaatatca gaatatctaa tacataccgc aatatgtaaa gaatttttaa ggttgggggt 480
actattggaa gatcagnacc ttacccggan ctggatcnag tttaaaaaga aactcantgc 540
tggtttaaat ttttgaaaaa ggnc 564
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<210> 7411

<211> 530

<212> DNA

<213> Homo sapiens

<400> 7411

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ttacaggcat gtgccactac tcctggctaa tttttattt ttagtagaga tggggtttct 180
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ccaaagtgct ggggttacag gcatgagcca tcg'gcctgg cccctacatt tttaatgcct 300
 ctaaaatcca gacatgtttt tataatcaat ggcaccttgg acttgatgaa ataaagtaat 360
 caaatagttt taataaatca aataccttta aaaatataaa caatttataaa attggtctaa 420
 gacccagggt ccaaccttan gatctggata tgaccataat gctatantag catattaaag 480
 cngagacccc gaccatagcn gnaacccttt naaagggnaa aaacctggta 530

<210> 7412

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7412

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 gagaaaagcn ccagtganat gtctttccca ttttcttctn tccgccacgg aacacgcaca 180
 ccaacagagc ccaggccact ttttgccctc ttcccttggg aaaaggagga acagaagatt 240
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 ctaaaacgag gtctgttttt ttaaaaaagt tctaaaacan caggaggaaa acacatggaa 360
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 tgaaaggggc aaagggtctc ttgcncggc anggacctgc ccggccacct tcnattccct 480
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<210> 7413

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7413

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 tgttccagct ctaccactaa caagcgatgt aaacttgggc aggtagcaat ctcttctgac 420
 ctgtttcctc atcttaaaat ataacaatat ttctgcct gcctaaacca ttgggatggt 480
 gggaagaatc caatgagatg gcctatgtga aagctttgga actgggaatt cccggnnaa 540
 acncctgngn gaccatgtca ng 562

<210> 7414

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7414

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 taaatgagtc tgttttctca atggctggca taattttgat agcaaacttt ccaaacagca 360
 ggacatcaca ccccgacaac atgactcatc ttcagagaaa atttagttag aatgacggag 420
 aattccagaa aaattactgc atactcagag tgccaatttt tcagaacttc atgcaaaatg 480
 tttatttggc cacaatctca aaactatatt cccaacttgt tctgaagtcc atattaatat 540
 tngnaactta aatggcnnth aaa 563

<210> 7415

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7415

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aacataaaag acatttaata agttataatc aagtattatg tttcaatttt gttgtgagtt  180
tattacattt gaaaggggtg aacacattgc acataatgaa atagctgtta tttcctttgg  240
aggggttaag gtaaattggag tacaatctga agtatgctct gtttttttcc tgcaagcctc  300
tgaacattac agctgtttac agtatgctgc tgacaaattc aaagtcaggt ggtgaatctt  360
tgagtaagcc cattagctag gaagagatta taacactgtt ccctgactat aaacttaatc  420
ctagttagca gctttctaac tccctttaca acagggaaga ctacgtggga aaatgtagaa  480
aaccaatgc actttgnacc acaggagaga ancacctgng aatatcatgc taggnngaan  540
ggaaggncct ttatttang                                         559
    
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<210> 7416

<211> 525

<212> DNA

<213> Homo sapiens

<400> 7416

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ctccactgtc ccttccccct accaaaaatt aagtatagac cacctgactg catccattta  180
tcaatattaa ctacgtctct gcttcacag atttctcctt aggtctgatt tcttcaactca  240
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ctaggctgga atgcnagtgg tggaatctca gctcaatgca aactctgcct tctgggttca  360
aggcccatcc tccaccttaa gcctcctgag taactgggac cccaggtggc caccaccaca  420
    
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ccgggctaatt tttnggnttt ttattnaagn caaggtttac catggttgcc caggctggtc 480
ttcnaattcc tggctcaagn aacctattgg cctngggctt ccaaa 525

<210> 7417

<211> 480

<212> DNA

<213> Homo sapiens

<400> 7417

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cagctgttag acagcatgct gntccccgct actgncttac accaaccag cttcatgngg 420
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<210> 7418

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7418

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atgcaaaactg tcattctttg aaactgctgg tatgtggaga ttgcacaact tcatgtacaa 180
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cctgtcattt tagcaattta tagtttgctt gatatatgtg tctgtgtgta tgaatctaaa 360
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 gaacaaaaac atcacaaaca ggtaaagcat ggagaatctg gtggggtnaa gggccttgga 480
 antgccaaag gaaaatggat ggtactatcc ntttgggggg tcaatcactt atttgaaagg 540
 gctggaaaaa gacaagta 558

<210> 7419

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7419

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 aatggtaact ttttctatca tttcacatta atccagttat tcattgtatg atatctatct 180
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<210> 7420

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7420

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 ggttggttgg tttgagacaa ggcttgctct ggcacccaag aaggaatggt ggnggcatga 480
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 actgggaata ccgngcnc 558

<210> 7421

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7421

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 ggcttgcgag gggcccggga accctgggga caggaaggan gcccctggnc tggncctgct 480
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<210> 7422

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7422

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gtccggcagg ctggtgggcc ntttaaggctg tgcagccgtt gcaacacccc tggncgctta 540
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<210> 7423

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7423

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tagcatttca gttttcagtt gaagactaaa aaatcaaata aattttaaag ttaaaatata 420

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ctctaaatat tatccctcct tgggagtaat tgntgctatt gggtttatga tagtcatcaa 480
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 ataggaaaaa agttgngg 558

<210> 7424

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7424

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 agtgcagcct gccaggccag cagcaacta actagtgtg gccagaagc ctctgctcca 180
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 ttcagtaagt atgaacaaaa ttagaactgg gtagccagcc cggggtcggg ggggaggtcc 480
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<210> 7425

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7425

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atgcatcctc taacactgac caacataact aagtacaaat gaagtcaatg gtgtacccca 180
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 tcagtcagcg gtggtggctc atggtgtcag ccnngctcct ttcacaacac caggtgaatc 420
 tggggcaagg catgctgggtg ggcaaagacc cagncccggg cattggggcc attccggcca 480
 tttagccngg atgctttggc tggcaggaag cttgggnctn ttttgattn ctggancctg 540
 gcana 545

<210> 7426

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7426

gagacagagt ctcactctct tgcccaggct ggagtgtagt ggcgtgatct tggctcactg 60
 caacctccac ctcccgggtt caagcaattc tccccatca gcctccaag tacctgggat 120
 tacagatgcc tgccaccacg cccagctaatt tttttgtatt tttagtagag acggggtttt 180
 gccatgttgg ccagggtggt cttgaactcc tggcctcaag tgatctagcc gcctcggcct 240
 cccaaagtgc tgggattaca gacgtgagcc actgcgcccgc gcctcaggct ggaattctga 300
 tccccccaat ttgcagacaa ggaaactgag attcaggagg gtgaatggat tttccaagc 360
 tcacacacct gacaagtggg acaacaaaat tcaaaccag gtccgcaggg ttctgaggtc 420
 aaggctataa tccccaaggg agcctggctg ggtcaagctc aaggagcatt tngngaactg 480
 aantaacgcc taatcnggtg ctgggtatga acgcaacaan caccactgga naaggccaan 540
 ttggcacanc ttgttaagca ggaagcccca 570

<210> 7427

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7427

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aaagactggg tctgtcacca ggctggagtg caatgggtgtg atcgtggctc agtgctgctt 60
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catgcatcac catgcctacc taatTTTTgt atTTTTgtg gagatggggg tttgccatgt 180
tgcccaggct ggtctcgaat tcctgagctg aaatgatcta cccacctgg cctcccaaag 240
tgctgggatt acaggcgtga gccaaaagtc aaaaatttta aaaaggtaaa tgttgccaat 300
tcatttttaa aagtttttatt atttttgggtg ctccaaaaca tttcttttg aaaatgaagc 360
acacagaata catttaaaat ctgatgtaaa aaaccaaaca tctgatttta aatgggtggta 420
tacaaaaatc caatcccagt aaattggctc ctttccaaga atggaagcat cttttcctta 480
ngaactacat tttcttttat ggnaggaaaa aaaaaatcta ttaaataaag tctggtccaa 540
agactnaaga cactggaaat ncccgggnga ngga 574

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<210> 7428

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7428

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ganaaggagt ctcactttgt tgcccaggct ggagtgcagc ggtgcaattt cagctcactg 60
caacctccac ctcccagggt tacgcaattc ttgngcctca gcctcctgag taggtgggat 120
tacagggtcc cgccaccacg ccctgcttat ttttgtatit ttagaagaga tagggttttg 180
ccatgttagc caggctggtc tcgaactcct gacctcaggt gatctgcctg cctcggtccc 240
ccaaagtgtc gggattatag gagtaagcca ccgcgcccgg cccaataaag ctctttttta 300
gtgatcatgt ctgaactcta cagtaatgag gctttaccac attcccatgt gacccgacgt 360
tgatgtgact acacaagaag aacctgttaa ctaaagccaa gaaggcggag tcgacagctc 420
cgtgactcgt taggaaggat gggaaatgca ntgtagaaag acaaccctt ntccagagct 480
tggaacacaa gcttcatctg aagacgatta anattccctt cttgganaaa ttggcaattc 540

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ncanggcacg ccnct

555

<210> 7429

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7429

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 ctgacagaat aaatgcaggc aatttataaa ccaaggggac tgcagggaaa atcaggattg 120
 gcagccaggg agagaaaaga ggcacacccg gagctggtat ccctcacctc caccactcag 180
 caaggcgccg gacagatata cggagggcac tctgcctctg ccgggggggt tttttagaaa 240
 aggaattgca tagaagatac agcaagaggg aactccacaa caacaaaagt gttccatata 300
 ggaaaagcca aggttgtcat gttttgttta aaaaagaaaa acgacaaagc acaaaacctc 360
 aatccgacct ttctgcagtt gaactgttcc aaaggggaca gtaggtggat gacactgcct 420
 ctccaacacg actgctgggg atttttctct gacaaacatt gggnccttct tacaagagca 480
 aagaggaagg caccaacttg cttaactcac attaaactca cacntttaca ccatgacnta 540
 ccacacncag ggagntcctg n 561

<210> 7430

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7430

gtagatagat ttctcataga tttatttctg cgtcatatta tatatagata tatgcatata 60
 tacctttttt tttttaatac aatctatata cccttcctt cccacacaaa ctcacaaaag 120
 gagattaaac ccttccagga ttgccatcaa gcttcccag atggccaggg ccaagaaaga 180
 atcatctctc aacatgttaa gaaacggctg ccattcttag gctctggggg tgaagcagca 240

gcattcccag gacccaaggg ccagagagag gaaaagaaat gactgtagtg tgacaggatt 300
 ctaggatgaa catgtccagt gactcctggc atggcagact ggctcccaga attctcaggg 360
 tgtgagtaaa ggtggggggcc ctatggctct tcagaggctg ctcaataggt cangggtagg 420
 gtataggaac tggggatcag gcatgcaggg atgggggtggc agaaaaaacg ctgngggnta 480
 tgctccagac agagcgaccc catcaggcta cccactactc atgacatgta atgaacaggg 540
 ccaatcctga cntttaagga 560

<210> 7431

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7431

gagatggagt cttgtattgt caccggggct ggagtgcagt ggcgtgacct cggctcactg 60
 caacctctgc ctccaagcga ttctcctgcc tcagcctccc aagtagttgg gattataggt 120
 ccctgccacc acgcccagct aatTTTTATA ttttagtag agacagggtt ttgccatgtt 180
 ggccaggcta gtctcgaatt cctgacctga ggtgatccac ctgcctccgc ctccctaagt 240
 gttgggatta taggtgtgag ccaccacgcc cagccctttt taagaaggtc tttctactgc 300
 ctTggaaaaa attcagattg ctttaggaat cattactttc tccaggccta cacctctcac 360
 agggaagaaa aaagtgcattg tctcctaaga agtgccagag cagttaacta aagcacttgc 420
 ttcaatgctg gctctaagct aatagaacaa gaatcccaaa tgaagcccac aagagttttc 480
 tgnaaaacac tgacccgaaa aacacttgct tttggTTTTA acttggccgt taaaaaatat 540
 tattaacctn ccgaa 555

<210> 7432

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7432

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cttgccagaa gggttgattt ttaattatgt gtatatacaa acttctctat tttaacattc 60
aacatattca ggattaattc tagaaagatg ctatagctga tttataaaac aaaatgattt 120
aggatcagaa agaaaatagg ggcacacaat ttcatgtagt ctctccctaa ctacccccaa 180
ccatagcatc acaagggttt tttttttcct aatgccacaa ttgaaacctg tattaactta 240
aaagttgaca ctaaaggcag gaattaagaa gtcatttttt atggctttta agcacttgaa 300
tgctttanaa ccccttgaa aatgctagtg aacaggctctt attcctttaa atgttgcttt 360
gatttgaatc ttggtgaaat ctagattccc tattaaatag ctgcatgcta attttgga 420
aaagtcaatt taaaaccttt aacaactact ctattggact tgaaanaang ggactttanc 480
atgtcccttg ttgggcttan aaaaancctt caaccccttt ttgncaacct aagataaaaa 540
ccatggatgg ggacctcc 558

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<210> 7433

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7433

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gagatggggc ctgctctgt caccaggct ggagtgcagt ggcaccatct cggtcaccg 60
caacctccgc ctcccagggt caagcaattc tctgcatcag cttcccaggt agctgggact 120
acagatgtgt gccaccatgt ctggctaatt ttgtatttt tagtagagat ggagtttcac 180
catgttggtc tcaagctgct gacctcaagt gatccacctg cctcagcctc ccaaagtgtc 240
gggattacag gtgtgagcca ctgtgccgg ccagcatgga cttttaagg aagtattttg 300
tatcttggtt aagaagttgc agcaagaggt ctttcttgct aagagagata ttttatctta 360
tttactggtg gttaaaaatt atctttcttt aacaaacact ctaaggagtc ttttaaagaa 420
centaaaang gttattacca aactagaatt tttaatgggtg ccataaaca aaattctggt 480
tgcttanttg natgnaatc ggcttcaact tgaaacttag gaccaacat tttggcttgg 540
tgagccaaca ttaatctgga g 561

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<210> 7434

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7434

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cagattttct tgctttaatt cttctctata ttaccacagt aaaatattta acaaagtcca 60
agagattact gatatgcaat aatgacctat gactttacat taatggagtg atgtatcaat 120
aataaactga tcagttaagt aactggaaaa tgtttgcattg taaagaatga ttcactatcc 180
tttttatctt gtattgaaat cgtcaaaaca tttaaaaaca caaagttgaa gtaattttta 240
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gtaaaatttt gttcagtata acttcagtga agaagttttt tgacacagaa ctacatatat 360
ttttaaattg gtaatccaca taagatatac acaaaacctt caaggtgact acattgggtca 420
ataaataaaa ctctacattg nttggtttta caggcctagg agcttatacc tcagtaccac 480
cctttaagga aatctaagtc tacagaagga cttgtccaaa tggttgggcc catnaattct 540
ttacaaaaac ctccaat 557
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<210> 7435

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7435

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cctgacagac cccaggaggg tcggtcagtg tttcaggagg ttacttgaa tcactgtcca 60
ctttctgggc tttgcctcct cctatctgtt tgctctgttg ctgttcagag aagaaccgtt 120
gcgtggactg aagaacctct gctctctgct ttgcctgggg tgcaaaactgt gtaggaaatg 180
gttgtgtcat tctcacagtg gcaggggctg actggaactg cttctggtag acaatgctgt 240
tcattttgct ggactggctg ttcggacttg tagaagtagc ccggaaggga ctagatgttg 300
gtgtggtgct tctaccagcg attggaggtg tgcctggttt tataatcaatg ccacttccaa 360
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aggcttttag ttccatttca gacatttttc ctgtggttgc aatcatgcta tgctgngttc 420
cagcaggaat taatcctctt gaaaggctgg cttacttggg caggacgact aaaactttta 480
ncctggcctg gggaatggta tgctgaatgg ggcttaaaaa tcttaagcaa accattanag 540
gttncctgna aacca 555

<210> 7436

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7436

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acaaatttct cgggaggcac gtagcaaaag gccattgagg aacagagcct gatgaaacga 120
acaatttttc aaagtctggt tacagagaag gaaagtgaag catctcaagg ctgggatgct 180
gtgtcccacc cccacccccc cccgccacca agtgacattg aggctgggca ggccacatgg 240
cctggggcct ggcgctggcc actcatttcc ttcaaaatct tggttttggc aaaaacatgg 300
caagtcggca aagtaaactg tctcgccagt gggggtggtg aggggtcctt cctctcttgg 360
gtggggaggg agtcagacgc ccagtgtccc aacttccatg cacacacact cacactcata 420
cactccttct cgctgacctt ctcttggtg caacaagcca gcccggtgcc tgcagatcac 480
ctggtgatgt gtgcacctga tggagctatt aaggccctnt ttttcccagg accaagacag 540
taacaggaan cngaaggg 558

<210> 7437

<211> 590

<212> DNA

<213> Homo sapiens

<400> 7437

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cacaaacttt tcactgtatt taacaagtta acagtgtcaa actacacgtc actacctgtc 120
 aaacccaag cactcaactt agaaacaaaa agcgcttgga gcactgaatg gaaacagaaa 180
 aaggctaaga aaggccaaca gagatatttt agaagcagtt aaagaggatg gtttagggag 240
 agttagattc ctgagcacca tcagatttcc cttaaggttt tttgtgaagg ggcttcacaa 300
 aataattttt agaaggacat gagacaaaat tagccaggct tggtaggcacg catctgtagt 360
 cccagatact caggaggctc aggcgggagg atcacctgag cccaggattt caaggatgca 420
 atgagctatg atcatgccac tggacttcan cctggggcca canagtgaga gactcctctt 480
 tttaaaacca aaccngggga ttngaactta gggatcaaga gatccgagga cttacacttt 540
 ggggnttaan cgggttttaa actttccact ggccaaatgn aaaaaggggc 590

<210> 7438

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7438

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 caattgagtc cataggagaa gacgacattc ttgcttgaca aggtaggaac aaattcatta 120
 tatttcacca agactaaaat tacaagttt ggggtgtgtaa aggcaagatt taattgttgg 180
 gaaaatttat ccgagccagc caccacgaca aaagccaggc tgaccaaate aaatggattc 240
 ttacatcct ccaagtttca gaagaatctt gaatatgggt agccagaaga tatggtaaata 300
 ttgaccccaa acatttgctt gaaggagtaa ggtcttctaa tgagtgaatg tcaagagatc 360
 agcacataag taatagctta tttatccttt aggtcacatc catctgtgaa tcaagcagcc 420
 ttgcagtcca catgggcagc atcttttcca tggcttcgag gctcaatgat caaaggttgt 480
 ttaaccagat cttaaaggtn ttttaaaagg cctctncatt ttttttttgg gtggttttaa 540
 agagagaaat ncnccagggg an 562

<210> 7439

<211> 541

<212> DNA

<213> Homo sapiens

<400> 7439

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gnttctttga attttatctt tatttctcca taagggaat cagagaaata tgctttcctt   60
ttaacaagc tcatctttaa tgtggtagca aagatggaag gtgcgagacc aaatcttacc  120
aaactagcta tttttacagg ccaataaagc aacatgcaat cccctcaac aaatttaaata  180
aatcaggcaa tactaagaat gtatattcca ttaaactaaa ataaacaagg ttgaaatgtg  240
gtacagaatt cactgatgag cctgtgaact ccacgtgagg atgtccagtg ccttatttat  300
ctcagtaacc agagtaccca gcacacaaga taaaagtggg tattacctaa gtggccacta  360
ttttattaat aatgcacata acatatgctt atcattaact cttaaaaaga ttattattta  420
actatncagg aactaccata cacatttcaa catacaagg tccatcttt nttagaatnc  480
ccattaatat ttggaagaat tgggaaangt tcccanggc ttcctatac aatcccccca  540
n                                                                    541

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<210> 7440

<211> 536

<212> DNA

<213> Homo sapiens

<400> 7440

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acagttgcct gtttattatt ttcaaaaaca aaacaaaaac aaaagacatt caaaattccc   60
ctgtggtgga caactgagtt gatgtggctg atccaggctg tctcccaggt tgtctcaggg  120
agcatcagtt gtactagggg gtgggctgtt gccctggcac ggctggatga acacttgcac  180
cagggatggc catcagaaga gctgcaggcc agttttgagc ccatgcagct gcccctggct  240
ccagagaagg ccctcgaagt tgctgctgct gctgttgctg cagttgccac tgccgacacc  300
acagctcagg cccaagggtg cagtcttgca tgttgagggt tccagccgct gctctagcac  360
aggctggtcc aaaagatcat ggtgtcataa ttctccagca tgagctctgc tgggtcctcg  420
nctgactggc attcgncta agggaaatgt gtcccatcna cgttntgag cttaactgca  480

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tcaaagcctt gcaaagttct ntttttgggc caaaacctac antttcggag gggggg 536

<210> 7441

<211> 533

<212> DNA

<213> Homo sapiens

<400> 7441

aggtagaga aacttggtat taaatttatt ttcttttaaa tatgtaactt tctcccaccc 60
tcacccactc cagggaggaa cagaaaatcc ccaccccctt ccattctgga gatttcgtat 120
ctaaagcctg agaggcgagg atgaagtata aaaatactat ttacaaaggg aaggaggtat 180
ctgttgctta accgtagaca ccccatccc cacaccccctt ttgatcaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaggcccct gggaatcaat ttaagtatag aactagccct cctntanagg 300
ggcccacaaa cctnaacatg gaataggaag ctccgagatt aactgaggaa gagactgaat 360
ggatagcacc cgtgggtcct ggccaggagg nggccctctc ttactctgga gcagctggcg 420
cccgccaagc cttgggttca tanggccat gtaaccctgg cattttcctt tnggncctgn 480
tttttggttc aaacaagagc ttcttggent nccggggagg cnccttggttc ctt 533

<210> 7442

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7442

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tcaaaaccct aaatccaaac taaaacatcc cgatttttta actagcactc tctttttctc 120
ttccattttc ttaaggagtg agttcacata gcaagctctc tgcccacaca cccttgagc 180
tcagttaatg cttctcctcc cagtcctcca ttctctccct ggggccactt tctcagagat 240
gccttatttc atgaacaaag ctgaataccc taaaagcgac tcctaattgt tcctctggga 300

caggaaacat ctcttggcct caataagaaa tctctcatca tgttccaagt gaattttcgt 360
 atgttagcaa gtttggacta accaatctcc ttcacagaat gcctaggatg aaatggcggg 420
 gcaagcatgt gtgggtagga gctctgcact cattccagat tccataggaa ccaccttaaa 480
 angactcttc tctgaagttg gcctggtggt atnggggang gcagcnttgc agttaatggc 540
 tnttccttaa 550

<210> 7443

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7443

gcataatacc aaagaattta ttgtaaatgt agtggcaa atacattcagaa taatcatcat 60
 taaaaaggaa ctagaaaatt atacatgttt aaagtatgtg cttttttccc accaccttta 120
 agttaatggc tagtaccaac attttaagta atgaaatact taatgtgatg acccattttc 180
 agataatttc atgactgtat cttcatctta attttttaaag cagttgacca tgaatttcag 240
 tttcagttat tctctgtttt tatcaattcc gtaatgatct gcagaatctt gtcattttca 300
 aggacatct ttggattttc aagctttttt cttaaaactg aatcaatgag aactctcagc 360
 tgcttgaaaa tgacagctat ctttacaggg gcctgaaaat agatccagcc atcaatagaa 420
 agaagacgtt ctcgggctga acttctatat caccaccaa aagtaaaact ggaaaaaggg 480
 gttattaagg gtagttttct tcaaactact ttggcatacc ttaatcttct ccgggattaa 540
 gaancnttcn tga 553

<210> 7444

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7444

agtggagacg gggtttact gtgttagcca ggatgggtctt gatctcctcg tgagccgccc 60
 acctcagcct cccaaagtgc tgggattaca ggcgtgagca accacgccc gctgtcagac 120
 aaaattttta agaaaacaaa attttttcca gaatattaca ttacaaaaat caatgaataa 180
 atgaactaca ctgtaacttt aatacttatt ccatatgaaa aaccaaactg tttctggcaa 240
 tttgattgat ctcttgagag tctgcagtgc attcattcca tggttaaaac cgtgtgtagg 300
 cattgcgttg ctgctgctgc tgtaatggct gctgggcttg ctgctgttgt aagcgaattt 360
 gctgggaata agggctcttc agggatttta caaatatggg agttctggga ccagtcttcc 420
 atactatacc attggcatct ttcacagaag attccactgn aatgggtgggg ggtncaggga 480
 tagccaaggt caaccgaaat tgagtcctga agnatcatta tganggtcaa cccttgnttc 540
 atntaatggg n 551

<210> 7445

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7445

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 gatgccggcg tctccttcag ccatcaggcc ccagcagtgc cccttgctcc tgtaccact 120
 ctggactctc gccggtaggg agggctgggc tgacagtgcc acgagtggga gaacaggggt 180
 cagggcagga cacagggttg ggatcagggc tgggcacagg atcagggtct gggctgggca 240
 caggatcaag gtctgggctg ggcacaaggt caggaccagc gtcgtgccc gcctttgggt 300
 cagaagattc cacaggagta gggctggggg tggatctgga gccggggaag ggtttggagc 360
 tgggatccgg cagagtgcc gccccanaac cagggtcagg gttgcggcca aaactgggtgc 420
 cagggtgaa gcccaagcca gaaccagca cagaaaccag atnaggacce cagaangaa 480
 aacttgccc ggcttatnat ggattcaagg ctttaaggcaa gncccaaggc caancnggg 540
 gcctttttt 549

<210> 7446

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7446

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ccaaatgcaa agtaactgng ttttttattt ctatgaacaa taaaatactt tcataatttc   60
acatcccatt gcttttaaga gcacatatat taaaaataaa ggaactccac aaactttaaa   120
gattagtatt tatcaacgct tttgtncaca tacncaaata ttttaatata anggtatctg   180
aaatgttatt catatatatt tagtactgtc atagtattaa ctaaaaagga tcttttaaata   240
ttggtaaaaa ccgtatatatt tacaatcttt tatttacatc tgaaatatgc ttaaattgta   300
caaaaacatt cactttaacc tttaaaatat gngtactagg actggggtac tgaccataca   360
ataactgaca gcaaacttag ggtttgcat ttagctacac attcactgga atttcatggc   420
aaatattcaa cctggcttga tcaacactgg tcaaaggaaa aaaaaatttt nccaaatgng   480
ccaaattcaa anggtggcaa aaatcttgaa gcttgccgng ggaaaccaa anttttancc   540
ccctggaaac ct                                                    552

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<210> 7447

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7447

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cctcacatcc aaacagctac agcttcctc cttttgnggg gtccccaac caagtctntt   60
ttcagganag cagacatgng cctccacaca gttctgaagt tctgggggct ccacattgtc   120
agctgggttg ggggtctcca tgtgaggag gctgatggca ctgcaggtt tttgcctcat   180
ctatgcnaaa aggtcaaaa aatttcttcg gcatttggga ccctcngtt ctgtagctcc   240
accagtcgct gcacagcctc aggcaagtcc cactcccaa ggcgacgatt atctcgagtc   300
cgaatgttca ctgttctctt actttgctct ttctggccaa ccacaaactg aaaattgtag   360
tgggcaagct gggcccggcg gattctccgg ctgaggggtc aatccaaaag tctgcatcca   420

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ggtcactgac caagtcctgg agccccgaag cttttgntgg gccctttttg gnggaatncc 480
 tttggttact tcccacaggg gttgaccncc acctggaacg gggaaagccc cagggggcat 540
 ttccccccc 549

<210> 7448

<211> 520

<212> DNA

<213> Homo sapiens

<400> 7448

attatttaaa aatattttgt tacaaaagga aaaaaatata atgcagtata aaagattgac 60
 agcgtcatca agttttattac acaattttca acctatcaga aagacaaaca aatcacccgac 120
 aacaggggga cgggaccttg gcctttttga gggatgggtg tttttttcc ttttgctatc 180
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 gccagttggg tggggtgcc a tgttctgaaa tggaagtggg gattgggggtt gggggacagg 420
 ggaaaaaaag cttccaacct gtagcctntg gncccaaggg aatgngcctt tccaatcctg 480
 cgggggactt ccttaangac tgagggttt nttanaaacn 520

<210> 7449

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7449

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 ctcgagctgc agtgccttcc attccacggc tctgagtctc tttccgctta tctgcaacct 180

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 tcatcccgna tctcctgggt caantttgga aaacagtagc ctctggggat tccttttagtt 480
 caaaaagtth ggactgggtca attaatgtct tttttaaaac aagcaatttg ganccttcan 540
 nttcctgggg a 551

<210> 7450

<211> 544

<212> DNA

<213> Homo sapiens

<400> 7450

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 ttcccgagca actaatgaag taggtatctt cagtttttctg aggaccaggt ctcaaaaact 180
 caggcttagt tgtccgtcta tcatagaagt cccctggggg ttttccactt actgacctgg 240
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 ttgatcttgn gatgtcgact cttcaggggt tcaaaaattt tgggctggaa ccttgggctt 480
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<210> 7451

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7451

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aaatgctgat tctgtccagg gggctgctgt atgtgtagac tggtagcagt cttggggact 180
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gtagtccttg cgaccgatgt tgctgacctg cttgggtctgc atagcctcga gtttggggca 300
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cagcatggac tcatccccgc aatgcagcac ctgcagcacg gcggaccttc tgcttggttt 420
ctagcaacan cgcttttgag gtccatcagc acttgactca tcacaccttt tgntgattaa 480
aggtaatggc cnatgcctgn gtttccgacg cccggtgcng gcaatccggg gacatagttt 540
taatctc 547

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<210> 7452

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7452

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gaggttttgc tatgctgaat actttattta ttttttatg taaacataat ttgctttata 60
ggcacaatat aacaaaagct ctaaagccac aaagacatta gacaatgttt cagttcactt 120
caatcaagct taaattacag agaagccttc acagttcctt taaggcagac tgagacattc 180
tttacacttc cttcagaaaa aacaatcaag agacaggaaa gaaggtgctt aaaatgagag 240
tacgttaaac aattaacttg cgtcccccg gttctcatgg cagaaattgg tcttattggt 300
caaactctag ttttctcggt ctgtattctg aaagggtttt ctttaaccat ctggagtaat 360
ttgcgattac tggattaact ttgctagtta aataaaacca aaccaaaccc agatttggtta 420
ggggtggtgg gggagaagtg cttttttatg cctctcctct ggacataaca aaggcgatgg 480
tgaattctga atggtgctga gttccactt ccccggggga aggagagcct aatatgggcc 540
anggtcttta cttcttcact ttgggaaaag ncattct 577

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<210> 7453

<211> 335

<212> DNA

<213> Homo sapiens

<400> 7453

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ggttcattc cattttatta cagtcctgtc cttgagttcc anaatgaang gctattttaat   60
acacaacccc aaacactcct aaaanggatc ttgttaacat tcaaaagtct cccatttntt  120
tctcagtata ttaaatacaaa nggaaaaaaaa aatnttaaaa aaaaaaaatc aataggttta  180
gttcacccca ggaaaagcac ctttacaaca ggaaactaaa ttgtcaggaa tntgaccaaa  240
gacncaaagc agcagataan attcccgaca gaananagng actcccactg gaacataaat  300
agatccccc aaagtntaca tatttcacat gagng                                335

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<210> 7454

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7454

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ataataaagt ctgtttatta cagcaattaa cagagcagcg ttgcccggca tgcttttcag   60
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caaaatgaaa ccaattagag gcttagtaaa tgggttccag ccaccccagg aaacttaacc  180
atccacgagt cagttcagcc gaggtagaac ctcagtgcag gaatttagca tgatatagat  240
tgctacttta cagaattaat ccagacctgt cgccagggtt gtggtcttga ggacgtgaaa  300
tgtatccgcc caacacagcc acccaggtgc tgggttcaaa tctcgataaa ctacataggg  360
gtatataggt ggggaacgtt agcaccattg actcttaagg gtctcttgcc actgccatgg  420
angtggggac ataaggagag gactagaagc tgggccnaaa gggacnagac ngagaaagaa  480
ccgaaatcct tcnttaacct ggcttcaaaa nctggantgg aaagtggccg cttgataggg  540

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gtaagaggaa ttcntttinac ctgganaaa

569

<210> 7455

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7455

gttttgagac agggctctggt tctgtcacc c aggttgaaaa gcagtggggc gatctcagct 60
cacagcaacc tccgtctcct gtgctcaaac catcccgcca cctcgacctc ctgagtggct 120
ggaaccacag gcatgtgcca ccacccccag ctgatttttg tatttttttg gtagagacag 180
gatttcacca tgttgcccag gctggctcgc aactcctgga cttgagtgat ccaccacct 240
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catgggatgc aaaagattta ccacaggtac ttgcatttga agggcttntn ccanaaatgc 480
ttgcctgatg tgtgtncgga atatgctgga agcttggaa cttttagtcc aatncncaca 540
ctgggatggg ctggcttcca aagnggac 568

<210> 7456

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7456

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cgcagggctc attctgcatg gatctgtgtt tcaggatgct gcaaggacaa ctctgcgggc 120
aggaaggccc cttgacccaa cgctgtagca taggtcctgc tctgtggatg gggaaagcca 180
gggggcacat acgtcccat gccgccccct ccaaagactc ctcgctggtg ctgaggcagg 240

gagtggtaat cttccagggtt atcatactgg gacacaacag tcacactgct ctggcgcttg 300
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 agtttgaggc tatgactcct ctctggttta aggggtggga cgattgactg aatgangtgt 420
 tcttcctnct tgnaacaatc tctggaatgg ttctcttggg canaaagctt gctaaccaag 480
 gtcgttcac ttttgganaa ncttactttt tggggtaanc ttaaaaatct tgccggatcn 540
 ncatatttac tccaaagt 558

<210> 7457

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7457

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 aagccctana tccaactgaa ttgacctgg ctggaattct gctgtttcat gagccagcag 120
 ganatttgca agtncattaa cncagttttt aaagtagcac cttcaatata tganagctat 180
 ataaatttaa aaataataaa aaaccaacta atacctattc tgcttagnga cctgtcccta 240
 agngncatac attctttcct cctttgaata tgataccaag gaagaagaat caagcaaaag 300
 gggaaagtaa ttaaaaaaaaa atntntntca aagcctgttt ggtttcatgt ttcagggtct 360
 cctggccaaa attccccaaa gctgtgaaga cngaaaagt gngaactatt tcagaaaagt 420
 gcancagggtt tctgaaggcg cccctacaat ggacttaaaa cttggattac tttccaagan 480
 gaaaggattt ttttccatcc caattggatg aatggngttt ttttaagaaa aaaggatttt 540
 ttaccccaaa ctt 553

<210> 7458

<211> 541

<212> DNA

<213> Homo sapiens

<400> 7458

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caagcctctc cttctcctct gtgtaccgct tcacctcagc ttctgtccga ttcttgccaa 60
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gggtggccac cacggcatcc gggcagctcg gtgggaagga gattctctgc tgttccgtct 180
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ctgccgggag ggcctcagtt gcatcgcca ggcaggacaa cgtcggggag gaggcctggg 360
cctgtgcact gctggggcca tgcagaaagg acttgacagg tgtgaaggtc caggtacacc 420
cggcaaaatt ctctctcaat tggggcatct gcaacanggg gnggnttcct cggtagggtc 480
aaccgnaact tggaactttt gacaggncca cgtegncata ccagttcttc ctggcggncc 540
t 541

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<210> 7459

<211> 392

<212> DNA

<213> Homo sapiens

<400> 7459

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aaaaaatgta tttgtgtttt gcaggttgga acgcaaacc agtctggcca cgtcccgtga 60
agttgtggac aaaatgtttc agtttctgtt cacctctgtg cgtgtgtgtg tatgtgttgt 120
gtgcatgtgt gtgtgtgtgg gggggtgggg gatggggtag gtatgtgctt ttggctcatg 180
tttgtgatga taactgaagt cttttgtggg tccgacctgt tgtagggtgt gggggaaagt 240
gaaggaagag aatgaagggt agtccccgcc gttgcaaacc ttcaccaaac cacgcggccc 300
anttttcgtg agtacccttg tgtcccanan aggaggaccc ancgtcctcg gctctgccgn 360
aggccttctt ggtctggngg gtactcnagg ca 392

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<210> 7460

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7460

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ctaaaggcta cagcaacaaa ttaatacaaa taattctggc agtcttataa aattacatct 120
atctctgtag atatttact tttgtgtcat caaaaacaca gtttgtaaaa atattttcaa 180
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aaacaaggca cattaaatac atcctcttat tgctctataa atgcatgcag ctcatctctgt 360
gtatcaaaag taataaataa tggccataaa acaccaagac agttataaaa atgacaaccc 420
agcctcaaac atagtattta acagtccagt ctagaacaat aaccaacat gatncataaa 480
agtgccccat ntgaaaacat gccgngggga taccctcta gcactgggct tacacttgct 540
ntttaaacc tagtagggct ttn 564
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<210> 7461

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7461

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ggaggggaaag gatgcacttt catgtttaac aaaataaatt aaatatacgg ggcttcagct 60
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gtctggcctg gacggggtgt ggtcatcagc atggctgaaa gaccaggcgg gtcccgggcc 180
ccaggagaga ccacagtccc tgcaaccag tcttcttcc atcattatta atattatctt 240
catttcttaa atataaatac caaggccct tctctgtgtc agggggagaa tgcagtgggg 300
atgagccact agccatgggc tccagcctct caggcttggg gctgctgtgc ccccaacccc 360
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ggccagggga cagaggcggg gatggaggcg gggactgagg cggggacaga ggcggccana 480
gttgggggaa tgacggtgga ncagggaaag nccctcataa ctatgagcct acgggacacg 540
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tacttgaagg cttnacggnc aaccttccaa aagg

574

<210> 7462

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7462

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aacaggagaa aaagcaaaca aatttatttg atcataattg tatgtgagcc ctcagaatga   60
agaccccaag atacagggga attgtccatt tttatgttta ggttcaacag attatggact  120
gtgtagaaat atgattggac aagaagggtg tgatctaata gtaatagact gagaggggaa  180
accagcaag gctgtctaga ttcttcttgg cctctctgtg caggattcct tccttctggg  240
cacggggtgg gaccctctct ggaatgggta tcttacgaca gtcaaacacg gtaggtcaga  300
tcatttcttt ccaaccagtt ttacacaga aaggggaatg gggagtgaga ggactatttt  360
taggttttat ggctggcttt gggtaaaacc ggttctggtt tctgatgacc tgccttgggg  420
aagagggatt ctagtttcta tgggtagcct tgggggagaa tgaaaagcca gaaacaagag  480
ggcaggaaaa ggtcagagag aaactttgct tctggggctg cttctgaggc ttccttttaa  540
gntatcagaa atgatcaggg gcattctggc tccagгнаag gctcc                    585

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<210> 7463

<211> 435

<212> DNA

<213> Homo sapiens

<400> 7463

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cacttcta at tctttttatt caaattaaaa aaaaaaaaaa aagcaccac atcagttgct   60
atttttctt ggtagctccc tgagctgagt tgctatgctg tcttctaact ttttgcctt  120
tttaggctgt gtcccaagat tcagaagagc tggagaggga gttcctttga acttccattg  180
ctcacaacia tgactaagtg tgcaccaaag agaaagacct ggctgaggag gagagaggga  240

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gagaccaaga aagagagaca cagagagggc aagaggcagc cagagtgcaa gagaccacag 300
aaggctccat ttctgcgggt gtccgcctgg acgggcccc atctcagngc cttccatccc 360
tcagtctggc cggttggtta tnagnccgga tgcccanacc cgngtggagg cacacgcatt 420
ccagnagcgn cctta 435

<210> 7464

<211> 589

<212> DNA

<213> Homo sapiens

<400> 7464

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aatctggata ccagaaaaac tcagtaggaa acatcaggat cacctagcca gaggttcctt 180
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tgctgtgaca ccacaccca gagacaacaa gatgatgtgg aggcacaggc ctgctcaata 360
aatagttccc agaagtctcc acagtgggat taatgggccc agggacgctg aactgcagga 420
gccaccttcc cgaggccagg ctgtggcctg ctcgctacgt gttgcacacc agcacatctg 480
cnaagggtcc aggaggatct tgtgaanatc cacggcccaa ccaggtaggt ggtgaaaggc 540
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<210> 7465

<211> 596

<212> DNA

<213> Homo sapiens

<400> 7465

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ctcactgcaa cctctgcctc ccgggttcag gcgaatctcc tgccccagcc tcccagatag 120
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 taaaactgat acatctttac agttgatgca catattagca cattcacaac ataaaaacaa 480
 aaattttagan gtanaagttt gggaagtatt aaggtaagta cccatgttca aaagttaacc 540
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<210> 7466

<211> 593

<212> DNA

<213> Homo sapiens

<400> 7466

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 tataagcacc tgccaccatg ccaggtaat ttttgcattg ttagtagaga tggggtttca 180
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 agtagagaca gcgtttcacc acgttggcca ggctggcttc gaactcctgg cctcaagcaa 360
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 aaaaggctat attcctggct ctgngtttcc gagactgntt ttaatcccaa cttctctaca 480
 tttagattaa aaaatattta ttcattggcaa tctggaacat aattactgna tcttaagttt 540
 cncctggatgn atatanaang nntaaggcca attttatcaa actagtngag tac 593

<210> 7467

<211> 591

<212> DNA

<213> Homo sapiens

<400> 7467

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gatttttaaa aagccattta ttttaaaaaa ctggtttgtc aaatcacata catgagcaga   60
tacacaacta ccaaagtggc ctgtaataga caccagtggg gcggtcacca cacagtacct  120
gaaaaatata gctaaaaaag gaggagtctg ttgagtatit aatttcagat ctacttgact  180
ccttgttgaa tggctttaag ttagcatata gtgagtgaga ggtagagtcc caagtataat  240
agctgatgcc tcagggtccc atttaaaaac aaaacaaaaa caaaaccatt tctccctctg  300
cacaaggga gacctatccta tttttttttt cctttgcgaa aacagaagcc aagtttctct  360
tctcaaatgg ttcagcattc ccaatcaaaa agtggigtgt ggtaacctag gtattgtgct  420
tgttgagcca ttttaatttc ctcaccttc gattcggatt cttcttctgc attttgnaac  480
cactcacaaa ttcttcatct ggncaagaaa aacactttgg cctttacaca tgggcttcct  540
tataccattt aanaatgnnt ctttggttaa aacataagtt tttaaagana c           591

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<210> 7468

<211> 593

<212> DNA

<213> Homo sapiens

<400> 7468

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agtgaaaaga ttatgtatit caaataaaat tatacatggt ggaggcagaa cagaaccagg   60
ggctcttcagc agaggatttc tcagtcagcc ttcacaggcc tcatgctgtg gctggcagat  120
actttccact gagcatagaa agtttcagga taacaagaaa cttgtttttt gcctccatga  180
actgggatgt cattattata gagaagatga ataatttaaa aagtgaagac tattcattca  240
aaatgctaga gtgacaaatt tactttatga aatttaaaaca cagcattcat cctcgggaag  300
ctgcatatac attatggtag tagaaccaga ttaggtacat ttcagcgttg aaaagatttt  360
gtctaaaaat gaaaaggcag ctttcttaaa gaccagagtt atagagtcac tcttgnattt  420
ttcatcttgn tttagtggcc aaagctcaac ttggtttaat nggaccaaag ctcagtaact  480

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cactcagatt agaactataa ttctgtgaag ngtcaggacc ccngaaagtc ctcctgggac 540
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<210> 7469

<211> 586

<212> DNA

<213> Homo sapiens

<400> 7469

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 ttgccagccg ggagaccatg gaagggaact ggcgccactg cccccagctg cccttcccag 180
 gggcaacttc accaagatgt ggaaatcctg ggccccacccc acagtcagtc atcgctccat 240
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 cccaggctcc aggccagtgcc ccccatcaag atcagacgta aggcattctt ccaccgtcgc 360
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 ggggccaccg tccaggtgga acaggcacag gcatcgggga atcagatggt atcagtgggg 480
 atagggcaca agcactttct gggaccatgt gaccagatc ttctttnggc agttcccact 540
 ggcttgnggn aagggtttt ataaangggg ccactttcan gaacat 586

<210> 7470

<211> 579

<212> DNA

<213> Homo sapiens

<400> 7470

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 aggaccagta tttatagagc cccaaacaga attcccaatg ctggtgtgca gggttggaatg 180

cgtattgtta cgagctctgt ttggttgctg gtgttgctgc tgctgctgct gctgcttttg 240
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<210> 7471

<211> 507

<212> DNA

<213> Homo sapiens

<400> 7471

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 ttgttggttt gcttgttttg ttttgagatg gagtctcgct ctgtcaccca ggctgaagtg 180
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 tgatctgccc acctnggcct cccaaagtgc tgggattaca ggcatgagct gctgccccag 420
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 acaaagtggc nctaccntn ttncan 507

<210> 7472

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7472

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tcgcgcacgc gcttgctgct cgcgcgccc ggcccgggcg aacgcgcgct gccgngcctg 480
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<210> 7473

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7473

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agaagacagg aaaacaccag taatggtgaa ggtcttgaga aaaggacagg acccgagat 180
agcgagagat cagaggaggc cctaatttct ttcctcattt cttttccaa tatcccaa 240
gtgcaatgca tcacctgaga cagaaggcag aaagcatcaa gctctctgtt tatcccaatt 300
caatgacaac cagaacttat tttttttgan atgggggtctc gttctgtcgc ccaggctgga 360
gtgcagtggg gcattcatgg ctcatcgag cctccaactc tcagtctcaa gcaaccctcc 420
tacgtcagtg tcctgagtag ctggaactac aggcatgcac caccacactt ggctcatttt 480
taaaaaattt cttgnanaga ccgcatcttg ntacattggc cagctttgaa tgncccgggg 540
ggcattacag gttt 554
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<210> 7474

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7474

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acaatcttct ttatctgtca ttttatttct gggctctttt ggctcttcct ttaatatgtc  180
ttggtttgtt ttgcttctct tagcttttct tactcctacc ttctacgtgc cttaatgtac  240
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ttatttattt tcaaattcat gttgaaagtg tttaagttac agtttactgg ttcatgggcc  480
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<210> 7475

<211> 510

<212> DNA

<213> Homo sapiens

<400> 7475

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gtccaatcag ttctttccgt aattcaaagt cttcttcatg atcattggct acccctgtat  420
gaatgaggtc tcgtagaaac ctcatgacac tacaattggg attcccgtgg nccaaggnan  480

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taaaagcnan ggncccctgt aaaaanggggt

510

<210> 7476

<211> 523

<212> DNA

<213> Homo sapiens

<400> 7476

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aggcaggtgg atcacttgag gtcaggagtt cgagaccagt ctagccaaca tgggtgaaacc 180
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nactaactga gagggtanac tcaaagccgg ttggctcact cccaaatnca caggacantt 480
tncattatnc accagttaaa ccctttgggg gcttgcttna agn 523

<210> 7477

<211> 482

<212> DNA

<213> Homo sapiens

<400> 7477

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aactacaaaa atatctggct ctcgagtgtg ggcagctcag tgtgggacct ggtctgagtc 120
atgacttggg ctgccctgca ggccagaggc ccgggagctt tccggccact cccagagag 180
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gatggcagag ccagggtagg gagacgcctg gatgtggctg ccctggctca actggctcct 360
 ggaccaaggc cctaaccac cagttttttt ctccagaacc cctgctggct ctcccatagc 420
 caagtgggtg gagcanancc ctctgaggn tcccagngca nacagacctt cacccaacnc 480
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<210> 7478

<211> 535

<212> DNA

<213> Homo sapiens

<400> 7478

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 gagaagcaag gctgagggtca ctggaaaggc ttagaatgaa gctgcccttg cctgttcctc 180
 ctgagaaccc agagcggcag tgggtccaggg cacaagcat aatgatctct catgaggatt 240
 cctatctgaa cacatcagaa gtcctatgaa catagatagt tctgttttag aatataaatg 300
 gtagtgactt cctgcgctcc tgaggcgggg caaaataatc cataaacaca taatccttct 360
 gggcaataat gtttctggac tcgccagcag agggctctag gaacagaggt gggggtagaa 420
 gtcggggaga aaaaaggttc tagagatggc atgtcttcag gggaactttg agaaatgncc 480
 cttggtcnac atttctaant gaccggaccc gngaaccnng gctgnaatgg catta 535

<210> 7479

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7479

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aagaggacaa gggtagaaag gagacaagcc ctctaagaaa ctgtccattc agtctgtctg 180
 cagtcaatat gaagagatag cctttggagc tacagaaaat attacattga agtggattat 240
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 accaagagca cagatgtgcc cagcagcaat atgacagcaa atgtctctat ggcttcggga 420
 tgaaaattgc cacacacttt aagacccgag aagaaatggg gagtgtcca cacccaanga 480
 actgaagctn gggaaagacc ggtttcttgg ggttctggca tanaagngga ctggtgctna 540
 anccactggg ctnttcca 558

<210> 7480

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7480

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 gggccagcag taccatcagc cctggccctt aggccagccc agtccacggg ctctgagtgt 180
 ggaggctgcg tagcaccagg aagcggctct gctgagggtca aggggcccc gcacagtgtg 240
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 tgaggctgaa gttgggtccag ttcacagcaa ctttctgacg agtctgcttt gcagaatcca 480
 aacagaacct tttaaagtac ttcaccttn ggcaggctta ttcattttca cccgnncatg 540
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<210> 7481

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7481

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aacgggcctc aactggctgg gcataatggc tgaaaggctt gtggctggca tggcatggag 180
ggggcccacc actgcttctt gacacaaatg agccacatct agtccagaaa agccttctgt 240
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gatttggctc tcagcccga gttagtagag tgtccagttg catcagaaat tcggtctcat 480
ccgactgact ggctatggct ctcantcctt gaganganag aacctggcaa tggccttacc 540
aaaatcnccg nggntgg 557

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<210> 7482

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7482

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aagggggggc tgccccctcg cccagctat atacacgaca gccatcctg ctggccgtgg 180
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aaagaat

547

<210> 7483

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7483

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gttaccacca ctttttgccc aagttctaag gaaagttctg aaacttagtg gtggtgtggt 180
tgtactcagc aagctccaga cagtctgagt tgctcattcc atgaacagaa gcttgaaaat 240
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atcccaggaa gttaaagccc aaccagccaa ccaccttnac atccttctca tctagtagag 480
tcattcaaaa ccgcaagngg ngcttttgag gcancttagg aaggcnttng ggggctttct 540
aaaggggan 549
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<210> 7484

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7484

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cttcatcaaa ctcacaaat ctgtagctta tacatttctt tgttcttggt gacctccttt 180
caagcaagtt tgctttggat ttttttgaat ctttttctt ttcttcttga tcttcanaaa 240
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agtcctggctc ttgtggagga atgatgtttt caatactgat accaacatac accaagcggt 300
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 cctctaattt ttcacagagc agtttatgtt ggcaagggtg gcagaacat tctccatctg 420
 ggatgatcat cagaggaggg cgaaggcagg cagtatggta tccactatcg caagagtcac 480
 ncngaagaat tagctcagga tggtttggaaggcncattt tttgcatggg tcaacatatc 540
 tgctangatg gggtt 554

<210> 7485

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7485

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 tttcaaagca accaccacga caaaggaagc atctaattag tccgttttct tctgatccaa 180
 gaatgctgaa catttactgt cccatctgta gttgtatcag cagtgtaatg aacacagttt 240
 atattactta actattcttt gaactccaag aactgttgaa gtcttttctg atgttctgca 300
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 gaaatccggg gtggtttact ggaagcatga ggaagcttaa aggacttgnc gactggctnt 480
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 ccnctgnaaa ggagc 555

<210> 7486

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7486

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aacgtgccta cagccaaatc tgtgaccatt acctgaaaag caggacaacc aaaagtaatc  480
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<210> 7487

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7487

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gttgacaggc caatcatttt aaaatatatt ccaaaatgca atcatgaaa ataaaaatat  120
gtcattgaat gagaacttct ttgtgggcca tctcccgtca cactgactga gaactgactg  180
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<210> 7488

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7488

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acattaccag tcaagtatat acaaaattga agtatgccat tcaagccaga ttgtgatttt 180
aaaataacaa acctctaaat agctaagtaa tgtacaatgt gtaaaattcc aattaaacac 240
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<210> 7489

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7489

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tgcgaaactac aatgtccctc accagaattc aacgtggcag agtccctgca tctgctccct 420
gcctggcctg ggctcccaca tccacagaag ggccacaagc cgggagcttt cggagtcacc 480
gnacaagagt ctgntctttg ctctgggctc ttaatccaca agtcccttca agtacggaac 540
ttgaaggcca agganccct 559

<210> 7490

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7490

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gtctacagag ccctgggagg tgacggtgag gatgggtccca agaggcgcag ctaggggtcac 180
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gttggcgtgc aacancggcg ccacgcgggt cactggttg cactgcggct tgtangcttc 480
acgccaaca cgtnaaacgc ttcattggact catggtataa tcgttgnccc natggagtaa 540
aancnc 546

<210> 7491

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7491

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tccaatcagg caacacagac tccgagctgc ttttggtttt ggtccctgga ggtgtatatg 120
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 ctttggtgtc tcatggaaac ctattaacat gccttccaca taagtctcta tatataaaac 240
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 caaagtggaa aagtcctgct aatcaaaatg gaattgtgaa ttaaagtagg ccactggcctt 360
 aagtatcagg tagaaaaatca acagcttatt ttttctgctc aagtttgtgc taacactgat 420
 ggncctttttg aggaatgctg agtatgccaa gggtagaact ttcgtacctt ngtaggtagc 480
 aatctcttaa gaaaatccag gttctggctg ggcctaactg cattgagacc cttggcatgn 540
 gtnacc 546

<210> 7492

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7492

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 acttaaaaga atacaacttg aacaggactg ttttactaaa atggtcttgt tgcaaaataa 180
 taacaaatac cacagagagc cctacatgag aaagccatgt gccttcaagc ctggggatga 240
 ggactctagt tctcaaattc ttagaacata gcacatgatt ctccaggga gagaggctgg 300
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 agagagaagt gctctctgaa gtctacagac ttggcaggga ccactggacc atggatagct 480
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<210> 7493

<211> 530

<212> DNA

<213> Homo sapiens

<400> 7493

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gatgctcact aattgcgggt atgttttctg ttaagggtag ttgtncacgc tcattctcta  180
aagtttcgtt tagtttttca tcctgctgtt gcctgngttt tccaatatg aaataaaang  240
gggttggtggg aagactttct tctgctagca gctgtttgct tgttggtgtg agtttttctt  300
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atctatttag ccactggtaa gcttctgagg tgaaggattc agggacatnt cgnggaacaa  420
acactcccca ctggactttc tcttgagan cctttttgaa atncaagggc cttggctcac  480
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<210> 7494

<211> 538

<212> DNA

<213> Homo sapiens

<400> 7494

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aggacaagga agacaagctc ctctggccct aggaacaaaa cacatttact cttcaaaga  180
agcagatgat ctgaataccc tctggagact gaatctgccc atacagcccc tggagccaat  240
gggcagacag tactggcatc tggcacaaaa gggaattcag acccagaaca gaagcagcaa  300
aatattttta aaatagtaaa ttgttcctgg actcacaat cattgttttt aagggaaggt  360
gcatgcccac tataagtact ggggcttcct aagagagctg cataggatta cacagctgcc  420
tcctgcttaa tggaggnccct acatcccttt gacacttaac ttgggtagga anaggagcct  480
tttggtctct tctgggttct ganagctntg canctggagg cncagnaaac tgaggttg   538
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<210> 7495

<211> 544

<212> DNA

<213> Homo sapiens

<400> 7495

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aggcaggcag aggggaggca ggaggccaca gagcagccgg cccacagtg agcacagcaa 180
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caacgtggcg ggccctagag gatgctagcc agctctgtgg agtctgtttc tgagcagcca 360
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tcatcaatgg ggtacatttt gaagagcagc aggccagca ggatgagaac tatgggagcc 480
atggtcacga gcatgttcag ngnaaacttg aacgtttccg nttgnaacan nccccggtct 540
ngga 544
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<210> 7496

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7496

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agatttcgtg ccagagaaaag tctcagcatt tccaccttgg tggctcttat gtcacatcc 180
tgagctgct cggtatcaga ttctccatgc acaggtcttc ttgacgtcaa gtcctccaga 240
caccgcatca actcataagt ctgttctgct gagaaaatca cctgtttctg ttccaaaagg 300
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ggcaaggcat ctgtcagcag agtcatccag aaagaccgag gggcaatccg agacgtcatc 360
aaggacagaa ggagagaagc tgcgtcggca aaacgcttct ccccgtagat acggtggaac 420
tcgcgatact ttcccaggaa tgtcagtcgg tcatgagca tcatggctgg cccaggttg 480
ncaatgagat ccaaatacaga aaagcagcct ngcttacagn aatcctgang gacctgtctg 540
acacggcgt 549

<210> 7497

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7497

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cgggtggcag ccataatccc caaagatggc cccacaccca agattccaaa gaagctagtg 180
gtggtggaag caaaaggaat gcagcaaggt cagggtttca ttgtccaagc cggcctgaca 240
cctgccgccc tgcccttgcc cagtgcacac cctagaccct gggccggcct ccatgcagct 300
ggaggccaga agacagcaac ccatagcttt gcaccctcct ccatgcccc a tggcctgcct 360
gcccagaaag atgccacctt cacagagcca gtgctgtcgt ctatatcatt tttgattagt 420
tgattttata agataaaagt aattttaata aagaaaaaat tcaacattga aggcttaaac 480
gttctttggg gtactgggaa agggaaattt ccactttttt ctcccacctt cctggnatta 540
aangtccggg gggggng 557

<210> 7498

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7498

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 acaatgtgct ttaaccgagt gagcaccttc cccctcatct caggtgatgt ttcctggcag 180
 aaggcattta caatctctcg gaaccagttg agagtaagaa atatgagaga acacatgaat 240
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 ataggacaat ctagtagacc atcaatctcc tccaagtttc cgttatgctg tctctccaca 360
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 gattcctgng aggtcaccgg acccccatct tttgcaaagt cctgagaaaa cagcagcggc 480
 aggaaggntt atggcaatcc catcctgagg gcggattctt ccagtccgac aaggggnttc 540
 caaggaatgg aaagn 555

<210> 7499

<211> 395

<212> DNA

<213> Homo sapiens

<400> 7499

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 tcaaattgctc taataaatac atatataaca aaagtgaaaa aagtaactat agtgagatga 180
 ggttcttcca aaaaaattct gtcttgtaa gcattctagg agtctgagcc aaagaaacag 240
 cgccattttg ttcattcctc cccctgccc cggacacttc ctttgagcca cctctatacc 300
 cagctaactc tggattatccc tctaggggaag gttctgnatc agccctggga ctngccagng 360
 cctnagtaaa cagacgggct ntgttaaaaa gntaa 395

<210> 7500

<211> 519

<212> DNA

<213> Homo sapiens

<400> 7500

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acatttccaa ggtctttaca ataagttata gcgtccaggT ccaacacagc atatttgcat 180
acaaagccac tgatgtgaac actgaaagga atctgtcctg taggtctttc atcttgattt 240
aataaagttt gtncagtatc aaataatatc aaaagtctaa aaaacacaat gagcttttat 300
gtttataaat tatngTTTT ataccataaa aaaagtcaaa agtgcagttt aaaaaaaagt 360
ggaagttggt attcttgata aaagctagaa aaatgtcatg tcccagttaa aaagcaatct 420
caaggntcat cccatttcta aggaanttta cctggnatnt aacccttggg taccatatgc 480
tggaagccaa anccaccgaa tgggagcttt gnacaatnt 519
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<210> 7501

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7501

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gaattctttc acaaagaaca gatccacagc caatttcagt cacttgtgat gctgaatcag 180
caccactgg tagcaaccag gatccttctg tacagtcacg ggcttgagca ggtgccataa 240
agcatctggt taagttaaac agtcaataat gtttactgac tgcagtacat tcccaccccc 300
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gtatatactg gaggttggtt tggtgataac caaagcctag taagattctc tgctcanggg 420
gttcgcccc aaaagaaaaa cacctggtnC acaaagctta accccttttt aaataaggna 480
ctgtccaagg agaccaagnc ntggattccc ttaaccaagg gttatggttc ctaggcanaa 540
gtttgaagcc ccacttaaac ccn 563
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<210> 7502

<211> 536

<212> DNA

<213> Homo sapiens

<400> 7502

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tggaatgtaat gttcaaagtg ccttccccac ggcgtctccg gcaagccttc tgcggagagg   180
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tctggaagaa gaacttctga gggcactgtg agcagtcgta gatcttgtcc tctgcccgt   300
gcacggcaaa gatgtgctgc tgcaacttgt tggcctggac gaagactgtg aaacacacgg   360
ggcatttgaa ggtgcccgcc catgccctcg aactgtgctc aatgaggtga cagaagagct   420
tggcccgggg aagtcgaaca tctgggtgca caagttacac tcgngggtga atgccttcct   480
aaacatgggg gtttgcaacc gnggantng atctctntnt tggcttcna aggcatt   536

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<210> 7503

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7503

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gaacagaatc atattcaata tttatttaaa aagaaaaaag agaagctaaa tgtgctggtt   60
aattttttgt tggcttactt gttggtctgt gatcggtgtt gtcaggcagc tgcactccca   120
tgctttgtaa aagattggaa gcaggtcctg ccagtcacagc ttgggagcta taggattcca   180
atatatttga aaccagggtc aggtctacat ctactggtgc cataacagat tctcccgtac   240
cagaatcttc ctcatctgaa ttgttatcgg tagtctggga tacaggttcc acttggttcc   300
tagtggtgaa acttttgctg atgcaggtgt gtgctagttc ctggtccatc tgggccatgt   360
atgacttgag attatcaagt gttcctttca gggaagcctc ttcgccaggt tcgtgtgttt   420

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caaaagtcca agcatcatca ctatctaaac attcaaagnc ttcacatcc agatcatcag 480
aatctgactc attaggcctt ggnccataaaa cttatcaaaa taattangaa aaaaatctgc 540
ttcaaanggg atnggg 556

<210> 7504

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7504

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acagtattag tttcctaggg ttgctgtaca aaataacaga ctgaatgatt taaccaagag 180
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atggccatct tctggtggat ccacacagtc ttctccatgt gtatccttcc ttcagtttcc 360
cttatagga caccagtgat gtcagattag gggatcgaac ccaacaacct cattttgaag 420
ttactcacct ggttggaac cctatgtcca aatacagtta tagtggtgaag gaactaggac 480
ntaaggctta ccaaattatt gagtggggca tnattccana ccattccatt tnaaattgca 540
ngggttttct tcaangngaa gtcac 565

<210> 7505

<211> 491

<212> DNA

<213> Homo sapiens

<400> 7505

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ccccctaac ctaagcaagt ggagctgcca ctacctaatt tatctattgt tttgctaaga 120

ggtagataaa acaaaagtga aatggggctt ctatgaggag gtccattaga ggggtgggtgg 180
 ggaggggctg ggatcgccca gtggaactcc cccaactaca aagacggcct gaatgagtcc 240
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 agagccaact gggcccccat tgaagactga aaaagggccc aatggaggtg taggatctca 360
 aagaaaccct gttgaagagg tctcagctct ggtttcccca ggcttcctga ctttggggct 420
 gngtggnggg ttncaggcca agccccaagg ctnacttcca accagcccct ntanaaggga 480
 anaggccatt c 491

<210> 7506

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7506

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 agagagtgga atataaaaag cttaattgtg ttaatacatg gaagacaaca gttctcagtc 180
 aacctagcca caattttctg tcttggccat ctgtaagaaa tgactacgtt tgaaattcaa 240
 ctttcacatt caaaaaaaag aaatcaattc agcttcagac acaaagcaaa accaaaacaa 300
 aaaaacaaat ggcaatagtc tacatatcta aacacttgac aattggggaa ctgtcccaca 360
 gtgatatgct caaggccagt agcacctatt tataatttgg catgtactgc ttgaaggggc 420
 aacaggaccc ggagctaaaa tattcaatta taaagatata atacatgat gaatcagaca 480
 aaagtagaca tttatgatnc ccnttaagg attctttttn gnactgggct gactttaaga 540
 aaatattttg ggaccttaa 559

<210> 7507

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7507

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ngcaaaaanaa tccacatcat tgtttggttag cagaggatct cttataaagt tccctaanac	180
actgagggca taaaacaaaa caaaataaaa taaggagtga taggctaaag cagtatcttc	240
ccctccatcc acatttgnca gcattatatt ctaacaaaaa aatgatcaca ccaggccatg	300
caaaactgnc aatattacaa cgagaaaaac cctaaaaaat ttataaaatg aatgatatta	360
cactatcaaa taaaaagaca agtcattttg ntttcatgag atttcaaggg tgatttgagt	420
cagcttnccc cggaactggc acggngtcct gtgtggggga ngggcccaac gtgcttgcan	480
tgctgggggg caaggcttac actccttatn ttgccaaagg cccaaagaaa tntggacttg	540
gtaaca	546

<210> 7508

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7508

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ttacaggcat gcgccaccac gcccatctaa ttttgtatit ttagtagaga cagggtttct	180
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tgtgtttcct gtgcttctta gctctttcca ctgagaaggc ttcagtgtgg tgattctgtg	300
ggctcttttt ataaaggcac taatcccatt catgagggtc ctgttgtctg acctaatgac	360
ctcccaaggc cccacctcct aataccatca ccttgggggt taggatgtca gcatatgaat	420
tctagggggg cctaagcatt tacacatag caagggccct gggctctatc tgaaangcag	480
aaggagcant gggcccttag gcaacctntt aatggaaaga ccttctgaga agaacttgga	540
aataaggatg	550

<210> 7509

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7509

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ccatggcttt ggggaggacg caggttccag gagtcacagg gcagaaacac gcgggggtggg  120
tgggggcgtg gccggagtgg ggaggggctg tgccccagc acctgggggt ggctcccacg  180
gcaccagggtg ggctagggca acagtatgta caggcgagca gtgctcctgg acccggtcgg  240
ggccggcttg ggccccattc tgcggcaggg gagctctggg gcacagggtc tgagtcccat  300
cttgggctgc agggaccgcg agggccgtcc agggaggctg gacagcgggg gcctttatct  360
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ggggcccttt tctaa                                     555
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<210> 7510

<211> 557

<212> DNA

<213> Homo. sapiens

<400> 7510

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acagctccat gtgctgggca aaatctcatt gactctttct tcaactaagg agagccatcc  180
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aaatgggtga tgtcctatca cactaaacat tgattggagt ggtagagatc ttaaagcagt 360
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 gcttaagtca agtgggacaa aaacattctg gnetggaact ttcttctctc tctctttcct 540
 ctctcttnc tctctt 557

<210> 7511

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7511

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 gcagccgtct tgttgatgtc ccctatgtca tccagagggc aggagcgggc agctctctac 180
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 gcttcttttt ctgggctcca gccagatctc tgggggagga gttgttgga gtggtgatgg 360
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 caagactgnc tctctcaggg ttgcttgtga gaatcattta ngaactgctg cagtggtttt 480
 gatgtttctg aacccttccc anaaaggccc agaagttggn aattgaacca ngaagtccaa 540
 ggaaagaccc cnaatctt 558

<210> 7512

<211> 541

<212> DNA

<213> Homo sapiens

<400> 7512

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 gatggaacag cgtanaggcc atccgtttcc aggccattct ganatccaag atgccaactc 180
 cttgtttcta tgaaacttca cgggatgtgc cagtcanaaa tggcatgctg aacattctgc 240
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 cctgngatgg ctcttctggt atccatatct tatacncaac acctatccgt aggaagaact 360
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 ggtagtacat tgaagcatgt gctttgaact ttcattcatta atttganggg tttagttana 480
 agtaccaccn gaaactttgg ccaggcctcc cgaaggntnt tanaattccc ggggtgnaaa 540
 a 541

<210> 7513

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7513

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 aagctactgc tcaatcgagt ttgacatcag ctaccgactt ttaaggaatc tanaacaaag 180
 ttctggagcc aggccanaag nggtaaaaga ttcagtttagc cccttcctct gtgctgtgct 240
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 gcctggtggc cacagacaag acacacggat atccgtgaac cttgctgtgg ccctnccgag 480
 gccagngcc aactggtgga cagccaagcc ggacaatint gtntgggcn aaattgttaa 540

<210> 7514.

<211> 544

<212> DNA

<213> Homo sapiens

<400> 7514

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tgctgatctg ttggcttctc agtttatagc attcagcccc ctggctcctc agcagctcct  180
tctcttcggc tgtgtctcga gctttcagct gcgagaagtg ggcaggagag gcgatgagat  240
catattgttg gtccagatac cgcaggtaga tgagcatgtg cagggcatag gccaacacca  300
gcagcaggat cagggacatt gccaggccga tcagaaaagc tggcgagaag gaggaggcgc  360
agtcttgggc ttttgtaa at cgtccccct tgatggcaaa accttgatc tggaaatcaa  420
taaaagtac ctcccacagg ctcgacccat catccgtgtc gctgggcanc aaganggcct  480
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ntnc                                                                    544

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<210> 7515

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7515

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tggatagatg atttaagcct caaaaacgca agtgattttt tggggtgcac gcagganagg  180
gcggatctgg ggtgtggtca gcagatgacc agccgtggcc ttgaaggcag tttccagtct  240
ctgcagctgc gggatgaggg tgaagcccc catttgctct gctcagcctc tctgttgagt  300
atttaagaaa tcctgattct ccgtgttctg ccaggaggga tactgcagaa gagtggactg  360
gtgtggccat tatttcagca tcttcacat gtacgggcct tgtaatctgt acccgatctt  420
tctataataa ttcctgggtgc cgaccctga ttcacaagc gantttcca gaccatgggt  480

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taataggatc ccggctg 557

<210> 7516

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7516

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gtggtgtggg atacaggaga agggcaaagg gagctcataa atagggccca gcctggctct 180
gggttcaaag gtggagggtc caggatggca caggctgtga gggctaggca gctgaggagg 240
tagtaetcgt attggcccc ttctcccagt cctctacaga cacgatgggtg gttttgcaga 300
agaagcagtc cttgttggtc atcagggtgtg ggttgataca ggctttgcag gacttggtgc 360
cacagggtg gaacacagca nagatggggt ggcatagcag atggggcaaa ggtcctnctc 420
actggtgggc anggaagcaa ctgcttgctt gggcanatgc anaggtaag tgccccagca 480
tctggtncac ttgggccact tatcggcact tgatataatc cccatactnt tcagggaata 540
accctttccg gcaagggtt gcaaa 565

<210> 7517

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7517

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aaaacaaaaa gtagaaattt taaactttgt tatagcttta aaacattaac gtctgataca 180

attagaaatc acattcagat ctcaaactct taaaaaaaag tatggctcct taaaaaaata 240
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 cttcctctgg tgtcgtgcgt gccccctccc ggtgctgggg tgcagccaca ccccccgcc 360
 gggcgccac cttcactcct ccagggtgag acacgcaagg tgacatgacc agaacttcac 420
 atccaatgct ctagaactga catctccact tcataggaca ctgntgcttt ttaaagcact 480
 gattatcaaa catgttggga aaaatcttta gacaggcgcc ctggtaaaaa aaaaatcccc 540
 ccncccccn cncncnc 557

<210> 7518

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7518

ctcgtgttgc aattttactg taagtttgaa actgtcaata caaaaagtta caaagaattg 60
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 ggattcagct cgtctcgggg cgganccagg cgtcacggcc tccggattaa agtatcccc 180
 cggggagtgt gctctgtgaa tctgggtggg gagggcgctc ggtgctgttc ccagcaaccc 240
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 ctganaagct ggaggctgaa gccagacacc agcctntcag gacttgggga cactatgagc 360
 ccactcagcc ccacaggtct gaatctttgg ggaggggagg gttccagtct ggactntgcc 420
 cttgaccatn agggcagggg gatcacactg gctatcgga tnatctttta gccagttttt 480
 ccagccccag cntaaaaatc angcccagct ttanacant gcgngggttt gaacttgang 540
 attttt 546

<210> 7519

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7519

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cgcatcagca tccttgctgc tgccgatgct ggaatggcta gtgatgctgt tgaggcttga   60
gatgctatct gaggagtttt gtctcttgat ccgaagtctt ttgggtgtgg tttctgaggc  120
attaagggtc ccctgaatga ctgcctgggc ctcanagttc tttttcttca naaagtctat  180
ggtttctcgc aaatccagca gctcagtgtc cttctcctcg gccgtctctg ccagggtgtcg  240
caggcgggat gtcataattca ccaggctctg ctcaaaagca gccaccagac tagcattggc  300
agaaagctga nacgtcaagg tggccacttt ttcttgggat aattccagtt ccctacgaag  360
cttccggatt tgtgaggagt aggtggagga ggcactggag gccagggaca gcactgagcc  420
cgtgaacatc gtccgngggg tctcggaagg atcctgaccg aatcattccc ttgggtctct  480
cggcaaggac aagggtgctc catttgggaa ccnttgaca gcttgaaggc cgcttnnggt  540
ngggatcttn tggaacc                                     557

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<210> 7520

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7520

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agcagtcaat tacggcacct tgtgtttatt ggaaatattc cacctacaga acattaagat   60
gccagcaacc ggcccggcgc ggtggctcac acctataatc ccagcacttt gggaggccga  120
ggtgggtgga tcacgaggtc aggagatcga gaccatcctg gctaacacgg tcaaacccca  180
tctctactaa aaatacaaag aattagccag gcgtggtagt gggcctgtgt agtcccagct  240
actagggagg ctgaggctgg cctggagggt gcagttagcc aaggtcacgc cacttcactc  300
cagcctgggc aacaagagtg aaactccgtc taaaacaaac aaaaaaaaag acttcacca  360
actaactgtg cttgtgtaga aagagggtgc atccctgttc cagtcatggc catgagggaac  420
agctatgaga anggccctaa gcacagcatg gtttgcagta aggaggcana cccagggaga  480
aagaagtnaa catcatcttc tgggctttgg ttcaaaatca caaggngtgg gccttaancc  540
tgttgcttgc caagtct                                     557

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<210> 7521

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7521

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cttgaacatc aaagatgttt gttattgcag ccaggagaca atgccataaa atgctaacaa   60
aaaaaagtta tactgttttc cttaaagtca gtaaattgca taaaagtact ctgagcattt  120
ttggaagaaa ggcaccagat aagtccaaaa tcttattgct actaggatca tacagggtca  180
cagactatgg cactctgttc agccaggaga ctaagtctca gcaagtcagt ctctgacctt  240
gaggcttaaa gagcaaggaa ggaaaatgtc aataaaacag agccctgtat cacagattaa  300
actggagtga aaatgatttc cagttttatg tcaaagtaga agctggttcc taggacgctg  360
gcgctatfff agatggcact ctgntttctt tggcccatc ttcattgatcc ggatcatgna  420
ttctacttgg gnggtacctg ggcttctcaa gtaaattggag cacttttcga anggtctctt  480
tgggtctctn ccactntgat catctggaaa atgccccaca ggcaccccg tngccttncc  540
aaaatcaggg ttaggatcca ncctttna                                     568

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<210> 7522

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7522

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aacatcagaa ttcacattta tttcaaaaac tcggcatgga ctctcagttc aggctgctgt   60
aacagaaagc cgtagcctga aaggcttaaa caacaaacat ttatttctta cagttctgga  120
agctgggaag tctcaagggtg ccaacagttt catttctctg tgagggtctt cttccgggcc  180
tgcagacggc tgtcttctca ctgtgtctc acatggtgga gagagagatc atctctctgg  240
tgtctctcct tataaagcac taatccatt catcagggtt ccaccctcat aacctaatca  300

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cctctccaag accccacccc caataccatc cctttgggga ttagggcttc aacgtgaatt 360
 gggagcatat gaacattcac cccttagctg actccaccca tgtcaactag ataggacaca 420
 cngtgaagta gtgaccacat cttacacgtt tttagccact gctgatgtcc gacangnctg 480
 ggtttgggac cagtgtgtac cagcaagcat ggctgtgggg canctgtacc tctgaggaan 540
 aaatggtcc 549

<210> 7523

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7523

gaatcgaaag tttcctttat taagttattt taccaagtga gcttgtatca aggctgagct 60
 ttcagcgcag tatttatgag ctgcatttct ttcaaaacat tctatcaaac tgacatttcc 120
 ttaaatacaga ctgaccttcc acaatatgga ataaatcagg tggtttaact ctactgacta 180
 aagagtgttt tccccaaccc tgagccaggc ggctttgtcc gtgtcgctca gctgccggct 240
 cactgaaggg tggatcatgga agagcaggcc gccgtcgggc ggtgactgat tacaatcatt 300
 tgttgtgatg catcgcaaat taaagggaca agcccagcca agctgctccg ctcaaagagt 360
 gcgcgtcccg ctctgcaatt actgatgtgc acaaaggacc cagggaccac ttaaaacaag 420
 gggaggactg agtccacgca gggatgaacc acaggccaag tccccacgtg cttgacagtg 480
 gncccgaac ccacctgntt cagacacctg ttncganggg aatctttcca tccacctggc 540
 cgttgggggtt aaaacc 556

<210> 7524

<211> 510

<212> DNA

<213> Homo sapiens

<400> 7524

aagggccaag ggtaaagtga atatttatca ttagcaccac atcccatggt cagccccacc 60
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 ataagggaaa caagttccca gcctatgtca catgagtttc tgcactatgt gttatgtggt 180
 aaggtatgca ttccctcagg acttcccaaa tccattacat gctagggttt tctctctggt 240
 atgcattctg gtgtgatgta ccctaagagc tgccttacgg acaaaagttt tcccacattc 300
 atcacattca tagggtttct cccctgtgtg aattctctgg tgtactctga gagttgaatt 360
 ttgggcaaaa gcttttccgc attcattaca ctcatagggt ttctcccctg tgtgaatctc 420
 tggngtgcnc taaggggnga ttcttgggaa aacgttttcc acaatcatta cnattcatag 480
 gatttctccc ctgngggaaa tctttgangn 510

<210> 7525

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7525

atttttacat caagtgtgct ttatttcctc cacaggtatt ctgttaaata aagcaccatt 60
 tatatactgc caggccacag cttaaagagga ttctttacag aatcaaattt cttgtggttg 120
 ttccgtatac aagtaaactt aattttgata ataagaacca cagcgatcgg aggcaatctg 180
 cctctataag gtacaaaact ggcacagagg acaccatatac atacacagta aaaatgctgt 240
 aagtttaaat tacattgtac agggctaggc aaccctgttc ttcccagaca gccatattaa 300
 atgaaagcca ctaaagtga ctcttaatta cataaaacat atccattatc tgattgccct 360
 ttaggaagta tactgaagat gcaagttttt ttcatctgga gttctgcctg accaagaatt 420
 aagcctataa atctatcttg ccattcaagc agagagcact ggacaactga agcncaaaan 480
 caaataagca aacttatnca acagcatggg gggtgggggt nanggactta aaagtgacat 540
 gctccncta 549

<210> 7526

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7526

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tacggtacaa aattacaggt ggtttagttc attacatgat acaaatcatt agagtcttta 120
caagtcatta gagtcttttg attttttaaa ctccatttta ctgtgtacca aatcaatata 180
atcacagaat caaagtcact tctttatatg tgaactcttc gcatttacac gaatccacac 240
atagagaagc tgttccaaga ccccccaaca ccattagtgt ctgcagccca ccaggaaggc 300
accatggact ttgtggagag aaagatgctt tgggggttca atgggtcagt atcttgggca 360
ggaagcacag ggtgactccc gtcttgtgtg cgtgcgcaca gccaccaaca cacactctca 420
ggactttccc gtttcacata cagggaaactt ttaaggcaag aggagaaaat gctaggaagt 480
aaccggggga tcagaactcc tccacctttn aggttccacc agtcacattt cccagttccg 540
tcttntggtn gaacctg 557
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<210> 7527

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7527

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aaaaatagag acggggtctt ggcatgttgc cgaggctggt ctcagactcc tgggctcaag 60
cgatcctccc acctcggcct cccaaagtgc tgggattaca ggcgtgagcc cccgcgcccg 120
gcccagcacc cggttctcga ccacagccgc acctcggagc tctgagcatt tcctcctctg 180
caagactgaa atacttctat tcagtcttga atagaacagt taagagtagc atgcagggtca 240
cagggtctctc ccaggaggga aggaggtcgc agtccaaaag aaggggaggt ggtcactgct 300
gtccgcctcc cacaggggct tggagagaag tccaaaggct caagagagta gatggctatg 360
gaacacaggc cctgggcgta ctgtcgcccc ggcagccaca gtgggccacc aggagcggga 420
ccggcgcgcc ctctagtggc ggaagcaacc cctgcagcca aggggtccgc atcctggaag 480
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caactgaggc acagagagac tgcgacgccc ccccaggccc acctggttcc gaagcgatag 540
aagccnggat ttgnatttgc ccgtctg 567

<210> 7528

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7528

ctgaaaaaaaa tttattgatg gatctgagaa ttttttcaca catgaatcat ttctccttcc 60
aatggttatt gatactgata gaagttcccc gctgagactc cctggacceca tggtttgtgc 120
ctgctgggca tcccactatg ctgattccta ctctaaaaga cacttacagc agaaagcatt 180
cacccatgac cattatgaag gaaatattct gtccctcact caccctctgg aagctaatat 240
ggagcagcag tcactctatc cagagccaca tgttcacagt tctctagcaa gcaggtcaca 300
ccccgtgggt cccctattcc ccgtgaccct tgttgatcca tcctcttctt gctcagttgc 360
tcccctgctc acctggactg cgggaggcat ggggtgcgccc actgaggcca tgctgaggag 420
ctgggatgga atgcaggaca gggagagagg ggagactgag ctgagaggga gcactggatc 480
ctgggaggtg tggatgcctg attacagtcc aaagacattg gcagcaacaa aggacccaca 540
atggctggaa acattacgtt cct 563

<210> 7529

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7529

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ctgtttttaa gtgattactt caaatgtgat ttgaagcatt gtttggcctg aagctttaag 120
accagtttct taagcttttc cctgagtttc agcagcttac ggtttcagtg aataagcaga 180

gcgccctggtt ttgaaatgtc tgttgtttgt ttgaaaatct gaatgtgtct ttcaaaggct 240
 gctgtgattt ctttggataa aatcagattt cgtatccctt agagagcttc cactcctgct 300
 tcacctttcc aaaaactaga cctaaggtag aagccacctc gacagctcaa agccagagtt 360
 agaacagtca tactgaatag atncaatagt ttatctggtg cgtatttgga gaaaggcatg 420
 acaatcaata cgaggcagcg cagctcggag tcacaggccc gactcggttt gaggctccgc 480
 ggaccataat tagctatcac atcaaacagg ttctgnagcc cctcttggct tttttcataa 540
 accnggacca taaccggccc tccttt 566

<210> 7530

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7530

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 gcatttttagc caactcctgg tctgtctcac tctcttcctt cttccgccgc tggggcctca 180
 ccacctcttc ctctcaatc acccggctctg cttgaatcag gtcagcttcc tctgcgatct 240
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 ccagcatcat ggaatgcttc agtgctggaa gcaaattccat tcactatcct gcactgggtcc 420
 attcatgaga ctttcccagt gctgggggtga gaatgtactt ctgcaggtac tgggtcccgta 480
 ggacaccacg catggngcac ttccagggtc tggttcctta tgaaactctt gcttgactcc 540
 ttnatcnggg caagaaacc 559

<210> 7531

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7531

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aatacaaaca gtccanaaag aaagtcaagt ccctctgggg gaggggcaag gggaagagtg 120
gtctgtgttg cttgggagcc caacctacaa cccaaagggtg ggggctgggc tganactgcc 180
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ggagctcagc cccaggagcc tgcctctgcc tctcacatcc tctgttccc tggccagcat 360
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ggggaagaag ggataaagaa tgtcccanan ggtcctggat tcacagcana tgggtccaaag 480
gacccttgaa acacccttga acaattttcc aagngcttac tggaaaaagg ggtggtgaaa 540
acggganaac ccaagggttt ccgnttaa 569
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<210> 7532

<211> 573

<212> DNA

<213> Homo sapiens

<400> 7532

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agagacatag gttctacttt atttacatct ttggtcaaac agtgggcatt ccaactcatg 60
tacaaaaagt tggcttttat ccattcctaa gtttggaatg aaaataattc cttgaatatc 120
aactaatagc aaaatgtgta aatacacgga gtaaaataca attctccttg tacaagtgac 180
atgaagtcta cattaccagt tcggtatfff ccatttttga aaggagaact gatagaagag 240
gctgggatga ttggaagtgg ccacaggaaa tctttgtgga gtctcttcag ggctattaca 300
aagttgtcta cccgggcggc tcgggtaccg ttccttgcac agccaactaa ttagttcaaa 360
gcccagctgg gctgcaaagc agccaaggct ctttaacctc acatcttcta agangcgccg 420
agcatgtctc cagagcatca tgtcaatata catggtctca gcacagtcac tggcttttgc 480
tccatctttt tccaaaggga ccagatggca tacttagggt ttctggaaac cgaattactg 540
gcaggacatt ttagctgact gggataactg agc 573
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<210> 7533

<211> 499

<212> DNA

<213> Homo sapiens

<400> 7533

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atgtttaagc tgtatatatta ctcacgaaa cactcgggtga aatcagggtga aaatcaacta   60
aaggaaaaat atttggtttca ttcatttgaa cttaaaccac ctaaagtagt actcatgtca  120
ttacgatgca gcaaatacaa gacctctttc tacaaagatt agcacaacca acaaattagg  180
ggatatagca aaacagagcc aaaaacggta agaaatcaat taagtatgtt acagcttaac  240
cctttacctc aatagtttta aaaaaataag caaagcctcc caatcccaa caatacgaat  300
acatcttcat caccaattcg tacttgtatt tcttattctt gaggttagat tctaaaccct  360
aaagatatcc aaactagtat tagatctact tatctatagc cagagacggc ttctatcaat  420
gntgccttag cagccaaggg tattaang cttttctang canggcgccg gtggctnacg  480
cctgnaatnc caactggta                                     499

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<210> 7534

<211> 518

<212> DNA

<213> Homo sapiens

<400> 7534

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cgaatgcgca gtgatgcttt aatccccctg ttgcaaacg agctctgtgg aagctcagca   60
ggaaggatgg aaagatgggg aggaagacc tggcgggtgg aagtgtggcc agggacacaa  120
ggctgccctt atgggactga aagagaaagc tgctgggctc tgtgtgactg gaaaccaggg  180
aaggagacct ggctgaggca ggaactgggt ttgccagcag tgcggagggg cagcgggtgg  240
ctcanaagtg ggagcaggta cacagaagga gctcagggca tgcctggggc atctccaaag  300
ctctgctgag agtgaaggcc aggagcctgt tttccttccc cagaagtgtg ctcattggaa  360

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atggggcagg gggcaagctg cttggggatg gaaagtaagc ttacctttga tattaaactc 420
attcctttgac ttgcttgcan gccaaaaagc ccnttttga gcnttaacct tttagccntt 480
ggaagggttn aacttgggct tccanaaacc cccaancc 518

<210> 7535

<211> 536

<212> DNA

<213> Homo sapiens

<400> 7535

aatgaccca agatataatt ctgattgtgg tctggatcat aaacccgcat cacattttta 60
atgtctattg tcttgagac aataagctgt tttatggggg aatgggtggg tggaaaaatg 120
ggagcagggc ttctgaagct gactaatacc tgaagaatac ggcaacgtga gaaggcactg 180
acccggctgc tttggtaaata ggaagaaaat catctcaggg ttgctaggaa catgggtaag 240
accagactgt agaaagatcc ttcaaaacaa aacagtttgc cattccttta acaattacta 300
acgtcaagaa cttggaattg tgccacggaa gacagagctt aagatggggt ggagccctta 360
cctccactgn tcccctgggc ctaaagcctg gnttccttat ggggtgttgg ggccacacaa 420
acaagtctct ggtttcaaca cagtgcagct ggggaatggg tcatgtccca aatgattttg 480
gaacaaggnc agggctcctat gaccttgctg gcatgaatgg tgaagnccat aaggga 536

<210> 7536

<211> 531

<212> DNA

<213> Homo sapiens

<400> 7536

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gttttcattc tctcacatat gtatacctag aagtgggatt gctgggtcat agggtaactc 120
aagngtttaa ctttgtgagg gcttgccana ctgctgtaac atttcacagt cccaccagtg 180

gcgttttgag aattctaatt tctctctttg ccagcacttg ttattatgcc tttttgactc 240
tagtgctatc ctggtagatg tgaaattatg tctcattgng gttctgattt gtatttccct 300
aatgactaat tccctaagca tcttttcata tgcttattgg ccattttata tctttttttg 360
agaaatgtgt attcagacct aaaaactgtt ttaaaaagca atgcatttta aattaaatgt 420
ggagataacc tatgttnatt gctggatatt tacatctctt tccaactcaa angngaccat 480
ggtgactaca tcctggcctg ganagcnnat gaaagctcct gggtaaaagg c 531

<210> 7537

<211> 536

<212> DNA

<213> Homo sapiens

<400> 7537

gcttttcaaa atgaatgctt tattttgaat tttaaaaata catacatctt acactgtaat 60
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ccgtttctgt ggccgccggg ggtgacgggc ctttgcaggg gctcatcccc gctccactgc 180
acattagcca gccccttccg ccttgtcttc cccgtgttgg tcatgatccc caggtactct 240
gtggtcagaa gcttctctcc tgagagttct ccaagctggg gctggatcag ttcgtctttg 300
tccagatcgg ctcccatgat gtcatggctc tcttcatcat ctccatcttc atcatcatca 360
gattcaagaa caccatctgg tagctcttcg gaatttagct gcttgatgat gaattctatc 420
tggcggatca tttcagcatt ggcttctttt ggatgaaagc ancgtangaa ggncttccat 480
tcccattgnt cttgntttcc taccgaatgg atgggaccag aaaggatctg nccana 536

<210> 7538

<211> 529

<212> DNA

<213> Homo sapiens

<400> 7538

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 ccatgcctgg ctaattttta aaattttttc tagagacagc gtttcactat gttgcacagg 180
 ctagtcttga actcctgggc tcaagtgate cttcagcctt ggcctcctaa agcactggga 240
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 caaagtttaa atattctatt ttgttagcac ctaattaaca tacaatttaa gacactttca 360
 aaattttaca ttattgaaaa taagtaggtt gaagactttt acttacgac actttgctgg 420
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<210> 7539

<211> 520

<212> DNA

<213> Homo sapiens

<400> 7539

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 tgccatatta taaacatttt caacatggca ataaaacct tataatggtt cacagnggct 180
 gaattagaag catcctaaat gaacaacat ggaggtagtgt gtgggggtgat aacataaaca 240
 taacaactca gtatttttgc ttcaacaact aaagcaacaa accacatctg ttagaagcag 300
 ccctttccat cttagcacia gcttggttca gtcttttttt ttgaaatgga gtctcgctct 360
 gtcaccagc ctggagtgcg gtggtgcgat cttagctcac tgcaacctcc accttcagg 420
 ttcaaggcaa ttctcctgcc tcagctttcc aagnanctng gattacnggc cccacttcta 480
 tgcccagata atttcngga ttttgggana aaanggggtt 520

<210> 7540

<211> 528

<212> DNA

<213> Homo sapiens

<400> 7540

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tgattctcaa ttttggcaag tacaacaggt taagggttct atttagtgtc cccttctgat 180
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aacagcagaa cctctgggaa aggaaccttt cggtatccag aactcccagg tggcagccca 300
gtgtgggatt tggagcatga caacaaaggc attttctcaa cattactaa aggagagtgg 360
ggtgttctat acgctactga tggggactgt catgaacaca tttaaattga attacaacaa 420
cattttagat aggaaatata gaatcttata agaacntaat ctaaantatt acccantttt 480
aatagcaaag nttaaccata aagctactta agtgttggaa ttanaaaa 528
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<210> 7541

<211> 528

<212> DNA

<213> Homo sapiens

<400> 7541

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gggtgactcc actcacccca ggatttccca gacttgctat tttagaggag agaggcagga 120
agccaactat cctctaagcc acagcttggg aagctaggct agtactgggg tgggggcagc 180
agagctgaga cctccacccc cgagccccta gcctgtgcta tcctcccagc ctgaggggga 240
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cactgccctg agctattcat gatctctgct cccagatatt cacctcaaca ctccaaaagc 360
cagccccttc aggtcttcag tcctgcggaa ggcaaaagga gggacggggg cctctgactg 420
ancaacttca aggggcctct ctttctgctg cccactgnat gccggccctt ggctttaanc 480
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<210> 7542

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7542

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ctcaactctt tttattaagt tagaaaactg ataaaagcaa cacaactttt ggggaaagca 60
ccatggcacg tcctttgtgc tacgtgataa gtgtgcttta tctcaatgaa gcaaccccac 120
gggtccaggc accctccctg cagtccccgc ggccaggctc ctgagtgtgc cagcagagcc 180
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ggcaaaccct gcccaaaggt cccaccccca agaggcctcc aggaccgca ccaaggcatg 360
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cttgagccag ccaagcagtg ttcacactgc aagtgcctgg gaagcccaa gtttggaccc 480
ctggccaatc cttgtcaggn accaaaaccc ttctttttaa aaggnggctt tggaatgaac 540
caaangcttt ngatggcctt gnc 563
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<210> 7543

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7543

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taatcagcaa attcctgcct ggctcagctc tggtttatgt aaatagtgcc cagctgtaat 120
gagttacaag gtgttattat ctcacacaca cacaggaggc ttcactctag agctccgctc 180
gcaacaaaag catcttaaata aaactgagag aagcggtttg atttgtaatg ttttcacaga 240
agtgggatat acctcaccca tatagagttt ctttatatga ctcatcttat agcaagttaa 300
atgaaggaag tttgatgggg gagggagggg caatatgggt cccaccccc tttcttcaact 360
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ttaagaaaat cccccaagag atgaccgca ctgaggagg aggggctggt cctcagggtgc 420
 tcagaccaag gtggctctgc ancacgtgct tcanaagttg ggaaggggga ccaaagctgg 480
 gcacaggctct ggggctggta cactaacccn gaagaanggt ctcttctccc cnnatctcat 540
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<210> 7544

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7544

acaaaaatgc cttttattta catacgagaa aatctcaccg tgtgtccagc tgccccgc 60
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 ctgcagggtg aggtggctcc ctccgcacag gccccaggac acccaccatg gcacaggcca 180
 ggctgctgcc cccacacggc ctccacgagg tcacgggtcc atctccacaa cccaaggca 240
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 caggccccgc cctctcccct tgaaaaacag gtggtttttt cctaacacag gaaaacagaa 360
 aatgagcacg ctttctatgg ctgccaagt acaaggagag gctctgccct gggagccact 420
 gcatggatgg tgggcaaggt ccgggagcca gcttcaagga gcangaagca gggggccatg 480
 acngcaggac agcccanccc taacccccg aanaaaaaat gcctggacat tcaagtnccg 540
 gngctttttc cggttaa 557

<210> 7545

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7545

ggaaaccttg aaacaattta ttgaattgct ttatacaaga ttaacaatct ccacaccacc 60

cctaacacca acatagtcgc tgcacaaaag ccacagcccc tctcacacct aagaaacggt 120
cacgcccggg aagtgtcag agactttcgc tgcgccaggg aaaccctgc agccccaga 180
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ctcaaactcc ccatcaaaga aacgtttccc tgaggcaaga ggcatcacta gattcctaaa 360
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angggaaagg aaggagggcc tgggaccccg ggtggtttat gggcagaaaa gccttggana 480
agtcctgnt taagcctcan tggccgggct tntgnttggc ttttaactta acaatccaaa 540
tctctctttt ggctcttttg caataccnaa 570

<210> 7546

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7546

gaagagcaga agtattttatt catcattaat tcaacactga ttattgaac actttagcta 60
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atggaacttg catcctgaag gggagaagat gatgataaga actcaacaag ctctaggaga 180
gcaaggattt ctgtctcttc tgttaacttt ggtattccca gcatctacta gctgttcaat 240
aaatagttgt tgaattaaac aaaaaaggta acttcagcta gtgataagt ctataaacia 300
tacagtaata agtagagagc attggaggaa gagggcagat atgttattac agatcaagga 360
gtagaaaagg gcttctctaa agagatgcca ttagaacttc aacttaataa cttaaagtcag 420
ccctgcaaag atctgaataa atactttncg gaaagagaaa ccaccaaggc tcttgctgag 480
caggaatggg ttgcattcaa ccaatggnet gnetggacaa ncccanggcc cataaagggt 540
caggt 545

<210> 7547

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7547

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agaacagtc tcactcggtc acccaggctg gaggccatgt cacgatacaca gcttactgta 60
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caagcatgtg ccaccacact tgtttcattt ttaaattttt ttagcaatg ggggtctcgc 180
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tgccagtggg atgtggcagt gccaccctc ttatatcttg gctgtcaagt cttttggctt 480
ggccccgcaa cttcattggt gccaatgctg aaagatgaac tttgtcangg ccattgntta 540
acccaaan 548

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<210> 7548

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7548

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caacatgatg aaaccctgtc tctactaaaa atacaaaaag taggagaatc acttgaacct 180
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ggtggggaaa aaagtaggac cctgtccta tattcaggtt tttctacat atatgaacct 300
atctaaattc tacgttggtt aaggtagctt aggttaatta gtctatactt atttaagacc 360
aatatggggt gagatggatt tttttttaa aatcctacag taaggcttc tactttcctt 420
ctaagtagga aaaaggtgac aaaaattcaa gtgtcaatgn cccctttctg ggaaaagggt 480

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tanaaaaacc attgcttacc ttgacttta cnagttcctt tgaagttacc aagccttta 540
atccgnngg 549

<210> 7549

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7549

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gaggaaaatc ttacatatta gggctcatct taatgttatg gactgatttc agtaaaactt 180
tttaaatagt aaatagcaat taacgtattc tcaaactgtg ctaagtagtt agaaaggcaa 240
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aagactcaag tgagttttct ttccaattt ggtcttttga acagaaggaa tccctgggcc 480
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atattcattt ctt 553

<210> 7550

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7550

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ccaaactatt tcactggtaa tctcccgtcc cactggaact ggtgcttgga tcggaaggga 240
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 tcttgcaata ctgggcaaca gtccactggg cacacattcc accttactgg ttttttttaa 480
 ggnggtggnc tacattgagt ttaanccacc cattgatgac naticggatt ggngcaataa 540
 ccagnggaac tccatttttn 560

<210> 7551

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7551

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 agtcaaggac cttagggagc agagcagtgg aatgcaaaca cagaaattac ctatgagtca 180
 cttttgtgag ccaatgacac ggcctcactg cagccattcc aagaagtatc tttgctcacg 240
 gtaaatgcaa agtaaacaaa ataccacact gcatatttga aacaaacaaa tgtgacgttg 300
 cctatactgg cctcatgtgc agaaggaatt ttggtcagac aatgacaaaa aaaaaaaaaac 360
 aaaacagatt gtgaaatgga attaaaagca caattctttg gnatctggga acgtttcact 420
 ggcaacacta ctgtatgata cagacgttcc tggaacagta gttatggttc tcttcctatc 480
 cccaaagaag cnccatngaa gaaatnggnc ncaaattgaa ggaagggggt tgttaccagg 540
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<210> 7552

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7552

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aagagaagta aaaaaattta ttgcagtatt cgctccacca gattacctgg ggatcccttt 60
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tgcagatagg tcatagatac tgcattgcttt tttttttttc aacagaataa attatatatc 180
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cagactaatt tccaacattc acttgtttat ttttttttaa cagaaagttt ttttccaaga 360
tataaacaat ttttgtttaa ctataatata atgggagtaa aaatgaactg agaattctgtt 420
tctgctgcac aacagcgaag ggagctccca caaaaatggt tgcccaacat ttccttcttt 480
tggtcctgca tncangttc acttactctt cataaactgg atttttttgg ccaaaaggtt 540
ggnanttcaa 550

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<210> 7553

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7553

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agccgaatta agttctttta atagattgca tatatagatg tttagccata ctcttagatc 60
aactctttta gagcagaact ttatatcaa ttacatgct ctagatacca ctttttttat 120
tttttacagt aaggctctgtt attcaaatac ccacttgtag actgacagct ttaagaaaaa 180
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ttttataaac agcaaacatt ttgctatatt atacataggc tagcaggctt gtttcaatat 420
gaaagtgcta attcatttac agatttttat aatcagggtat gtaggggcta caataaaatg 480
nccaataatc tacataggga ccatggtgga aaatggtgaa naccgggata aggnnttttag 540
atggnccttt t 551

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<210> 7554

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7554

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gcatgtgcaa aacaccagac acatacagaa acaattagga ttctatgagg gcagagaatt 60
tgtttctcta aatggggctg ttcaatgttt cacagagcac aaggacaaga aattcaatat 120
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tcacaccaag cctaagaggt cgttaccatt atccccattt accaaatgag gaaactgagg 300
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attctaactc caagctctac cacaaatcaa ttatnccaat ggngcgactc ttcatatgcc 480
ggatcctgnc ctttaaggngg gnatggggga ctcagaacct ggattcagna aacacctgga 540
agctgggact tntttt 556

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<210> 7555

<211> 538

<212> DNA

<213> Homo sapiens

<400> 7555

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gtttttgact ttggtttatt taaaaaacia gccaaaaaaa aaaaaaaaaa accccaactt 60
tatatacaaa gtcaaactga aaccacggat tatggaaaga ggcaagaatt atgggtaaca 120
gggganaagg ctgggccaga gccaatacca cattctgaac acaggagcca cgggaaagag 180
gtgctggttt cttctggcaa gaccggggtg actggaacgc agngttctac tggcaaaccc 240
agcccaacac tgagctnttt ctagcatgga ctccattccc gtgatggcca agggagaccc 300

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ttccccana agcctgtgtc cggaacctag canagcctgn gccatccgga ggagggggct 360
gcttagcccc agccaggctc catgtcttgc tcttcaattc cgttcactga catcagacct 420
tgtccacac tcgaaaagcc tttttctccc ctggcttatt ctaaactgga aaaggacngg 480
agaaagtcag cncaagactt aaangggccc aggagaaatn cccanggtna nggcaaaa 538

<210> 7556

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7556

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acaacaacaa ccaccttaat gtaactgaca gcccttcccc ctnaccctgc ctctgggctgg 120
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tgggggcacc cccgggttcc caccagaccc aggcctgggn ctttgaacct gggctttggn 540
ctttc 545

<210> 7557

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7557

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 ctgaatccag ggacacgac ccggttttcc tggttgaata atctcatctn catttatgac 480
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 ttaagntcct 550

<210> 7558

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7558

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 agcgatcagg aaaaggatta atcagtaaag gagaactcgt gagtcattcc ataagatgta 180
 aagcactggc cgtttctgtg aatttccttg aacaaaggcg tgtgtctaaa ctacttaaga 240
 tctttaactt aactgaaacg ggtggctgcg ggtttcagga ggagccaaga tgtttgatta 300
 tgctccactg cttcaaggga gtgtgatctc cctgagcaac ccatggaatg ctgctgaaga 360
 gttatgctct cggggcataa agacatgaag gcaataagga gacttttctc ctcagaggcc 420
 gccatggctt cccatgggtg tctcacacag gggagaccaa cttactagc accccagaaa 480
 ctcacattag ggtttacaat agtaagggtg tctttaggag ccacnttggg gaggggtcaaa 540
 ctttttgag cccaaactnt n 561

<210> 7559

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7559

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tttaaagaaa atacttttta gtcaagtaca gatccccaag ggttttatta aagccaattt  120
ttatttaagt agtcttcatt tttgaagcat tttcccctag tactctaatt tcaaaatcag  180
tatctctcaa atgctgatgc cactgggaaa aatttccaaa ttggtaatgg aaacatatgc  240
tatgtgcate tgctcaaact agcaacaaca tgatgtcaaa taaaaatgga tggcattaaa  300
aaaaaaatcc aaaaacctat aatggcaact caaagcagca ataataagaa gaagagatta  360
aaatctctag ttaaaaacaa tcaagacttg cagattaaat ctgaacttta ctccttctgt  420
tagtacaat cagaaacttc ttgctactca aattcaaaca gggtgcaatg aatggggtag  480
tttcgnattc cagaactacc tttncctacc tgntcctaca ttctggnttt cttntnaaaa  540
atnccccctc ctttggggga atccccct                                     567

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<210> 7560

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7560

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canaatgcct ttattttcag nancatanaa tttaaataca gagtcaaaag atgattnata   60
aaatataaaa ctttttctgc ttggccgtat ttgaagacaa gctgaatata tatctatgtt  120
ctgaataagt ccactatgga tatatatagg aagagatain catatatcca tccacagatn  180
cacacacaca tatatatattc tgcatgtata tatacataat tctttctata gttncaggaa  240
atacttcttc tataattctg attttgactc ccatectcca ccatttactc atccactcat  300
tacctaaatc ttggctttct ttcctatatt gnaaataatc catccaaact tctanccagt  360
actgncagga gggttcttgc tcnagtgagc tgtaataact attttccact gacaacttct  420
gcacatcggg gacncagngt atctgaagac tccgcngnat acttccaaca acgggggcat  480

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ttttctttcg naaacggcat ggcaattact ttataggaag acttttcgaa antccccccc 540
tt 542

<210> 7561

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7561

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gatttagctg ggtcctctgc tcagagtttc acaaagctgc aagcaaggcg ttggctgggg 120
ctgggctttt atctgagggt cagatgcttc ttccaagatc acatggttgt tcacaaaact 180
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<210> 7562

<211> 444

<212> DNA

<213> Homo sapiens

<400> 7562

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atataactag tttgnatgtt attcccaggg cactgttgaa tatattggaa aaaaagatga 180

ttgaagcatt tactaaaatt tttgttattt aaaagaccaa atccctatgg atttgggaga 240
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 agttctggaa agagaacaaa ctgcagagta ccacagggat aatgttaggc cttcttacia 360
 atgatttgca agaaggaact cgggaacatt tccaaaccca ctggttgcat tcaactntgn 420
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<210> 7563

<211> 498

<212> DNA

<213> Homo sapiens

<400> 7563

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 aggctggta tgaactcctg ggctcaagca atccacacgc cttgncctnc caaagtgtg 420
 gggattatag gctgggtcac tacnccagc ctntatatca tggacnnctt tcatggggaa 480
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<210> 7564

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7564

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 cgaccctgcc gaccggcttc tctgtcctgg cactgtggg canacggggg gccttccggc 480
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 gaacccc 547

<210> 7565

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7565

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 gccggcaatt ccctgggggc cgatcgggaa tttggattga aanagggtg ccatggttcc 540
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<210> 7566

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7566

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caccagcct atgggcttac tatattgncc aagntgggct caaaaattct ggccttaaca 540
aatnttctgg ctttaanc 557

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<210> 7567

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7567

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gcctgtaata tgaattactg aactcaggta agtagaattt aaaggaggcc aacaacagct 420
gccaaagaatt atctgcagta agaaatgtcc ttctcacaga agactcaatt aggagccaac 480

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<210> 7568

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7568

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agtttccaaa tggagactta actctggcac tgcagaaaag ttaccaagaa tctgaaggnc 540
ngactgatgg tanactttat tcngaaacaa 570

<210> 7569

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7569

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aactgccttg actgctgtgt ggacaaagat tccaaggatg tactttggct ccatgggaag 180

gactactgca atttatttagc ggtatctgta aacatgggga ataaatctca gccctggctt 240
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<210> 7570

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7570

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 tgggactaca ggcatgcgca ccactgcacc cagttaattt ttgtattttt agtagagatg 180
 gggtttcacc atgttgggtca ggctggacaa ggcttttttt ctttggagaa atcactcacg 240
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 aaagccagcc aggacctgac cacctgtatc ctcttgggtg caatctgctg aagccagatg 480
 agttctgctt tttaattcca atcctattct ggcaactggaa ctangnctgg caaccctctt 540
 aatcattaac atatcaaa 558

<210> 7571

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7571

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gaatgccatc atcagagggc tctgggtcat cagccaagga ggggtgaaaa gacagaagca	180
gcaacaggtc cttcagcaga cagaggggca tcgatgccac catccctacc caggtgcagc	240
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agaacgcaa gccggaagga accatttctg ccaccagca gaccacagc accctctgtc	420
tgnctcaga taccagaggt tagtcaacc agcgtctca actaattgga gatcgagct	480
gggcttaaga ngctgaaaac ccngggntt agtaaacaca gnccagcata cgtccttcac	540
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<210> 7572

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7572

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tgttctgtac aggtgtgcct gtgagcagca aacggttatt tgcattaatt gtcataaggt	180
gctggtagcg aatggagccc atattcttca gcataatggcc ctcatcaaaa attgcgtaat	240
taagtttcag ccgtcgaaac agactacggt catcagaact gctgatcgca cagttatatg	300
tggtcacaat tacattgtaa tcttcatatc tactatgaat gttaaactta atttgtttac	360
gttcttcttg agaaccatag taacagagga ctttcaaagt agggcaccat aaattaactt	420
cccttaacca gntatctata gttgaagctg gaccaacgat caatgaggac cattataccc	480
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aatnggcaa aangccctta aancc	565

<210> 7573

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7573

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cccacacca gaaccaggca cctccagag ctggcccatc tccctccag cccctgcctc 240
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tggaccgaa tcctcgctg gacgttctt ggngtccac ggtgctggac ncaagaattg 480
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<210> 7574

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7574

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ggccgaagcc gtccatcccc aatcctgaga acagagttgt ctgtttctt ttcgggggtc 300
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 aaagggggcc ggcaccggcg gttacgcctg naatcccaac acttttggaa ggcccaaggc 540
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<210> 7575

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7575

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<210> 7576

<211> 583

<212> DNA

<213> Homo sapiens

<400> 7576

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 nggtcaaccc ttctgggctg nttacctggc acttgcataa agggatgtgt aacttaacat 540
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<210> 7577

<211> 584

<212> DNA

<213> Homo sapiens

<400> 7577

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<210> 7578

<211> 595

<212> DNA

<213> Homo sapiens

<400> 7578

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<210> 7579

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7579

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<210> 7580

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7580

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<210> 7581

<211> 543

<212> DNA

<213> Homo sapiens

<400> 7581

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ctg 543

<210> 7582

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7582

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<210> 7583

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7583

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cgtcagccat  aataaggcat  aataaagcat  gaagtcatca  tattaaataa  tctgacacaa  480
aagcttaaga  tcatatcacc  aattgggtaa  ttgnataaaa  aatttttaag  tctattaact  540
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<210> 7584

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7584

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aaggcgttca  atgtcccgaa  gagaaagtaa  ttcacccttg  ggctcttcat  cactgtctat  180
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ggccatgcgg  attttctgga  agtcttcctg  agttaagact  cggctagtgc  tgatggctgc  300
agctttggcc  ttccgctcct  ccatgggcat  gctgttcagc  ttcttgagaa  tttcttgctg  360
ttcttcatcg  gaagagtgtt  gcacatcaat  ccattcacca  tcagcatcct  cctcctcact  420
gagactggta  ctttcccatc  catcttcac  attttcagca  ttctcttctt  tctcaacttc  480
cagaacttct  gctcctggaa  tgtaatcttt  agcatcta  tctccatata  ttggactctt  540

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gcttctatgg aggccctgga ggcttacccc ggaat

575

<210> 7585

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7585

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gcacgtgcac acccccttcc atggctgcag gcagagggtt ggtgactggc ttctaagcag	240
gacccctga ctgccctgaa agttcagtga gccactgggg ctagacacag gcctgggctc	300
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gcccagtcct ctgccgctcc agcttggggg agataggctg ctccctctga ggacgtgcat	420
cctgggaaag ccttcttcag gcagaatgaa gacccatggg aaanggcant cagtggggan	480
gcaaaagaaa aaaggggaac aaggaaatgt gcctggctta aaatccactt ggtacaccna	540
aatggggggn cctngggtaa acagtc	566

<210> 7586

<211> 288

<212> DNA

<213> Homo sapiens

<400> 7586

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tatgggtagc tgggggtggg ggaagatagt atcaaaaaac ggtgaagaga gctgatgagg	120
ctgtggggac tggctggaag ctgctggcag ggtggagtgg gctggggccc cggcagattc	180
agatcgaggt acagcagcgt taataatact cttggagcgt taatactctg gggaggggca	240

ggcacttggg gggccctagg gcatgaaggc acttgggggtt gnnnnnnn 288

<210> 7587

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7587

gagccagagt ctcgctctgt caccggggt ggagtgcgtt ggcgcatct cggtcactg 60
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 tacaggtgcc cgctctcag ccaggccaat ttttgtatit ttactaagac ggggttgac 180
 catgttggcc aggctggtct tgaactcctg accttaggtg atccaccgc ctcccaaagt 240
 gctgggatca caggcatgag ccaccgcacc cagccagaag acagctgctt aaaaaagtaa 300
 ttctaaaagc tctgacgttg gatccctct gctgcgtttt ttgttagtat caaactgtct 360
 ttcagagggt taaggagaa aacaaaacc atgatgctcc ttcacttgct ctccgaggcg 420
 caggcgaca gaaacagcgg cacggaccac agaaatgcag gacggactnt tctggttcca 480
 cgccacgang ctggaacatn aancccagt cctggggcac acacangctt caggaaacta 540
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<210> 7588

<211> 501

<212> DNA

<213> Homo sapiens

<400> 7588

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 ttgaactaat ttatactccc accaacagtg cataagcatt gccttttctc cacaaccttg 180
 ccagcatctg ttattttttg actttttaat aacagccatc agccattctg actagtgtga 240

gatggtatct cattgtggtt ttgatttgca tttctctaata gattggtggt gttgagcctt 300
 tttcatgttt gttggctgca tgtatgtctt cttttgaaaa gtgtctgttc atatgctttg 360
 cccacttttt aatggggntg gttttggaaa ttiggttaag tttcttatag atgctgaata 420
 ttagancctt ggtggatgna tagnttgcan aaactggcat tctgnaantg gctggtcact 480
 ctggntggaa tttctttgct g 501

<210> 7589

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7589

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 aatttcatgt acttgaattt aaaaactcta agtgccaaca ctgtaaacad tttgtatctt 180
 ctcaactaaa ccttgcgga taacaaggaa aagagcaaag ataagcagta ataattttgt 240
 gtataataaa gctgatctat ttttcagctt ctggttttaa tttaaataag attttaaaac 300
 aatttttaa ggtccatgct acaattgtaa aggctatttc tatgcacttt taattctgga 360
 cacaattttc aaaattgcat gatggaggta agaattttta aaaccaccg gaatgtaaat 420
 aacagggaaa gaacattttc aatcaaagc atcaaacata cattcagggc agaaatctag 480
 accactnttc caggttttaa gccatcatgg tttaatatnc actntntgac cggaaangga 540
 ccgaaatcc ccatttnntt 560

<210> 7590

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7590

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 ctgcacactg agagacttca aactttcctt tcacatcaat tctatcttct gcaatatcaa 180
 ctgtgccatt ttcagatttt aatgttgatt tacattttta aatatctttc cttacttcat 240
 tcaaataatt gaacactttt gtttgtttct cagccagcat cctcttcac tcagtttgcc 300
 atgtaatctt gggcctgttt atgtagaatc tatgctttct tgaattttat tcagagtata 360
 agcagatggt ttctcttgaa atgattcacc agcactccaa caagttctcc aattcgactc 420
 tcatgggttg gctgtttgct gaagaggcag acaatggagg tcttggtggc nttcgnatgg 480
 acctacaggt tggnccttnc attggagacc tcgaccagcc aatgnntaga gggatagctc 540
 acnctg 546

<210> 7591

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7591

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 aggcccctgc ccggggcagg gcagccatcg gctctttgcc ccagtaaaag tttctcctta 180
 gtgagactag aaaacaaaaa caatgaaacc caccacaaag ggaaaaaaa aacaaaaaac 240
 aaacaaaaaa aaaggaaaaa gaaaagaaaa aaaagcaaaa gtactggacc attctgtgat 300
 tccgtttaac ctgcggccact tcaggaacgc tgcttctgtc agcttctctc tggcgctgct 360
 ttaacctaaa ggactgagga aatcagaact ccagaagct ttttcaaaaa gtcataaaac 420
 agaaaaaaa aatcttcttt tggctgcaaa attcccaagg ggggtggtga atcgctttt 480
 tcctangga caagccggcc cgttgactna ncanggaatg gcntttaagt tnatccantt 540
 ccggcagttc a 551

<210> 7592

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7592

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gcaagtttta tggttcatat tcaaagttca atctatgttt cacattttta agttcagaca   60
tatcaaagcc taaaagtaca gaaggcttgt gatTTTTTat tgctttcatg caaatatacc  120
ttctttttcc aaaaaatgaa gccacatcaa ttttccacac caaaagagt gaggacaaca  180
gttctatttc ctttttacta ggatatggtt tcttatggaa ataatcttta agaaattgct  240
tcttttcttc ataagaacgg cttcatatt ttttaggata taatgctaaa atctgaagag  300
cctcgtcctt gacaataggt ccctctgttc tgctttcatt ctttgtctt ttaaaaggca  360
caacactcgt caccttttct ggaccgggg ctgcatcggc atttaggatg ggaggctgct  420
cctcccatg ccgctgggtc tcggccccta agtggccatc aggcagcttt ctcttaacag  480
aaaaactgga atcatgcatn acttcaccac tgactaaaag cagntcactg gtggngaata  540
aaaccgcgtg ggccctggaag gctganctgg tggnccttgg aacac                    585

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<210> 7593

<211> 584

<212> DNA

<213> Homo sapiens

<400> 7593

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cttcagaaac aagaactctt tatttggtta aaaggagcac agggacatat gaagaccaga   60
gagttacaac tttctcttga gaagaacaag gcgtaagcat tgaagaaact aggagataag  120
acagaaagga gccaccattt tctatctcaa gcaaaccctc atcaatgaat atgcgatcac  180
tgatgggttc caaccattt tcacacgatt tcgtagttcc tttccttctt aaaatgtctg  240
tgtgctgtgc ttgtctccac actgatagtg actattcacc tggctcaca cacatgacct  300
ctttgtatac taatatagtc agaggctaaa tacagctagg gaaaccttag actaactttg  360
caactatctg cctccagtgt caatcccaaa cccgaacaa ccatctttgt ttagtgggca  420

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agagagggac cacattgatt tcagaaccct cagagagctg cttctcatta tataggcaac 480
gtgtgaagac atatgattta aattggggga tgtcacttct tttgggtcaaa ttgactggat 540
taagggttat gccctattaa ccaaggtacc ttnttccaaa actg 584

<210> 7594

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7594

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ttacgtagaa gctatcccca ttggatagag cagggcttgg cagaccccg ctttgaatga 120
acaagtcgac ttgctcagat aatccttga gggaagagac aaatgcgagg agtgtctcca 180
cagccctgct ttgctttgct ttcgtcactg tcgcccagcc atcgctctg aaggcctgtg 240
aagttggagc ggccagcccc agaagtgggtg cccaaagcct gtctctcagt ggcctcacct 300
ctggagggct gggcaacagc actggtcaga agttccgaca gctgaccacc ctcttcggct 360
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gctgagctgt cccgaggcac cgctttcggt gggaagggtga ccaagtctga gttcttgnic 480
tcactctgat cactgnctg cttcttngg catctcaaga gagtcatccc tgacnaagga 540
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<210> 7595

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7595

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tcttccacat tccttatact gatagatttc cccttggcta tgatttcct gatatgcaaa 120

acagttccaa tccatgggtga catgtatata cattcttaat atttataaat ttttacttgt 180
 ctatagtcta gtattgttat accatgtggt ctgtttataa tcatggtttc cattctgtga 240
 gtcttcagat tatgagtcca acacacaagg ggatgtccac actaacctgt gtgaactctc 300
 tgatgtacaa ggtgtttgac ttcaggcagg agtttctgat tcactatact gaaagggttc 360
 tctgatataa aatgaggtct gacttcagag aagccttccc acatctatta cattcatatt 420
 gcctctccta tgaattctct gatggctgtt gaatgctgat ttgtggtaga atttttttcc 480
 cattcagtac actcataggg tttctctcct gaatgagtct ataatgnaca gtgaggtagt 540
 acatncgaga naangctttt cccctcata cattcaa 577

<210> 7596

<211> 582

<212> DNA

<213> Homo sapiens

<400> 7596

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 cctctcaacc cttgtcctgg gagcttcaag tatggtagagg cacaactttt attaaaagag 120
 ttacaaaaca gaactattaa acacacacac acatacacac acacatatac acacacaccc 180
 caaaaaaaga tacactetcc acgcccaccc acagatagga atgttggcta agggataatc 240
 cctcaataac agggaccgat ggcatatgat cccacagcct agagccgaga caggctctgt 300
 cttcatcact gtcctggggc cagcacgtct aaggcaaaaa cctgctggga agattaaagg 360
 agctccagaa aggaagagat ctttcaggtt gaggtttttc cctaaggtcc gtgaggcagg 420
 tccctagagt taaaggcaca ttattggaga aaaggccctt ggatgtagag aagaaaggac 480
 tcttctctgg caccaacagc aataaaattt actggttgaa aacatcctgc atctgggaga 540
 aggaagaagc tttatatata aatctcttct agtttcttgg ct 582

<210> 7597

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7597

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ctcatggcca gaattgaaaa tttctcctc cagaaattta gggcacccaa ttattgaata 60
cccttatcat attgctttta atgacagaaa gattaaagct ggcacacctt atagtatact 120
aagcatgaat gtaaagtatg agaataaata ggagactttc ctaaagtca aattacaaaa 180
ccgctcaaaa ctttgtaatt gtgactcatg caaataacct gttagggtcaa cttaatatta 240
caaatactgc atcagctcgg tgcctttata tcccttttca taaaaaagaa attctcactc 300
cactcctgaa gccagcaaac agctctggag gaattacctg tacaccaag tgccacggtc 360
actctggaat ttttaatacac acacacacac acccttactc atgaacatac acattttaca 420
aacacacaat ggtgtacaca cacacacaca cacatccaca cacaccccat ctttaggatt 480
ggaagctgat tccaagcctg gccttattct atctaaattn tcttgatat cctgaacacc 540
tggtggtcac aaaatgnatc ttttacctcc tn 572
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<210> 7598

<211> 456

<212> DNA

<213> Homo sapiens

<400> 7598

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gggtttagga aacttgaaa ataaataatt cagcataatc caaaaataac atactccttt 60
taaccatcat ttttgagtgt ctctctagaa cactcaaaaa aatgaactgc actttaaaag 120
ttaattcatt aattttaaag gcaatttaaa taatctttac atcttaaag aacatcttta 180
aaaagcaact tcagaaatca aattgaatat caaatttggc acaaaaatta aggaatttcc 240
ttaaaacagt tgaacaaaag ttaaaacaag gtccttaaaa tatctctgaa tgttttatac 300
agagataaat gttttataca gtgtttaata cagtgtttta tacagaatgt tttatacagt 360
gttttcataa aaacactgcc agnnnncccc ggttacacct gtaatcccag cacttttngg 420
ggccaaggcg gngagatcac ttgaggtcan gagctc 456
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<210> 7599

<211> 584

<212> DNA

<213> Homo sapiens

<400> 7599

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cgccctctgct aattgctttt acctaacttc acccttaaag gtgagctgca cactcagcta 120
cacaagtttc tagactgtgc gatggcttca aggctggcct accacaactg actgaaaaaa 180
tgtcatgttg gtaagctgac actgacttgt atgtttttta aaatggagag acaatggcaa 240
attgtacctt atgtccttat agaaccctaa ggatcattct gagtaaattgt gaaataaata 300
aagtgatcca tgagtaaata caatctctgg gctaacttaa acctagaaga gtgagccaag 360
tgagcactaa caataccact tagaaatgtc tagaaacatc atttctagaa ctcagcttgg 420
gagaccatat cttgcctgaa tatgtacata tatttacaac atattccctt ttggcctctg 480
gaatttagcc atttttagttt ggctgttagc tgnntttctt ccatatgcta gccaatatctg 540
cagttataac tatcattaaa atactcttat gcatgaattc caat 584
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<210> 7600

<211> 592

<212> DNA

<213> Homo sapiens

<400> 7600

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cagagtatca taaaatactg gatctcgatg agcagccttc ctctgaaaat gcttagtttt 120
ggatcctcct ttaacaagta caacttttct tttcaaaca gtacaacca acatgcagtc 180
tggtcggcgg cagtgagcag gttggcgctt ctccaaagct agactggaac atacacaacc 240
cagtcgacag aagtcattgt tgcagggagg ggctcgtttc cttatgattg tgttgatagg 300
tttagttttg agggatgctt gagctgtaag tagagttggt aaggatacat ctgctcgctc 360
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ttctgtgatg tatgtccttg gttttccttc ccaaagtgca cagtcttcca ggtccattag 420
 cttcacctga gatttagaca agcctggagg gcgacttccc tggtgctggt gctgctgctg 480
 ctgtgcctgc cgnaaactaa tctggtttgg aaatatattt catccaaagt tggcncaaca 540
 aagttatcgc ctggattttt gaaaagaagc ctgaanaatc ttgggaacct tn 592

<210> 7601

<211> 592

<212> DNA

<213> Homo sapiens

<400> 7601

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 atggcacttg cagggaacat gagctcaatc actattgctc actaagcaca gggtcacact 180
 ggagtcactc tagggaggct gcgaggaaga aaagagagtg cacagagcca tgaagcaact 240
 actttaaaatt ctgaatcttg ctgtgttccc actgagcatg ctgccttcct agagcaggcc 300
 ttggagccat cccagggact aacacagatc ctccctgggg cgcaggcttc tcacactagc 360
 gtagggtgcc taggtcatcc tcatcattgn ttatcatcac agacttcttt ctgcctgcca 420
 gatatcttcc ctacttgnng ctttaaaaca ccagcaggan gggaagtcaa nggaatggtc 480
 ttggtaagta taaatccata gcaaaaacga tttgagaact ggatgcttcc caaggttgca 540
 ggtgtttgga tggttcctga atctttatcc caggatcttg aatggggggc ct 592

<210> 7602

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7602

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ttaaaaaaaaa aaaaacaaaa aactaaaact gccacaaata ctgaanaggc aagctccagg 120
 cctggccttt ccagctggag gcccgntntc ccgtggaccg caccgnaaag cccagcccgg 180
 cactgntggg tgaccgtccc atggctggtt cgccccggac cactntgntg aagtcagggt 240
 ggggtgttaa tgcccggcgg catcgntaaa taaggacaag gggaaaaggc agcccacctt 300
 tccctgaaca ccttccatnt gggctgaact ttcttgggaa tgtataagtt atctggatga 360
 aggaggtggg agatggagaa aantaaatnc caagaactaa agtgagggtc ccaggacctn 420
 tggtggcagn tcagcccctg gggcaaaact ggcctccang ganggaaccc tgattatcca 480
 aatactgngc ttttgaaant tggtttcttc anaacctgn cctgggggac tgagtntaaa 540

<210> 7603

<211> 589

<212> DNA

<213> Homo sapiens

<400> 7603

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 gaggcaagtg gagactggct gtctgtaggg agtggagaaa tggcagggtcc agcttgggct 180
 ggtgtcctct tcctcanaaa gtgctgtggg tgaaccaga gtctcaggga gcagaagccc 240
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 tccacagtgc gctccatggc gcgcacctgc tccggggagg ctgtcaggaa cgccaggggc 420
 ccgatgcgt gntccgcaca ggagtggcag aagtagcccc cctggtttcc ttctgtgct 480
 ataggtgatg agcacttttt catggtaagg acgggggtcac angggatggc attgtgcact 540
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<210> 7604

<211> 584

<212> DNA

<213> Homo sapiens

<400> 7604

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ttttgaggat tctttcccaa acctattaca cctgtattat gatggttaca aattttccaa 180
ctcttccact ccttccagtg cattatTTTT agtatcttca ttaaacgggc aaaaaaaaaag 240
atcccctact tgtaataaca aaacaatgtt ggaaactgtc attaaatcag gataagtga 300
aacagatct gttcccagac tcgcaggact ataagtttag gaagtacaca aaaaaattaa 360
aaattaatta cacaatagga tacattaaat atgtgcagct ttttgnatgt gaatcatacc 420
taagtagttt taaaaacaaa tggatccaac ccatccacca actaataaag accaaccgag 480
tcntncaaag gaaaatcaca cttttgggt tactcctact tgggttaaga cccttaccat 540
aaaattgctg catgganatg gtcntaatn caccggtgaa tntt 584
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<210> 7605

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7605

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cacacttgca tttttttaat aaggaattta agatccatag tatctttaat gctcgaaga 60
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tcaacacttg actccacaaa caaggcataa ccatgaaaac aacactccct ttattttggg 180
ctcccaaaat caaaagtttag aactaattta tttaatcaca gatatttagt atactcaata 240
atgcactaac aatttcttta aaaaaacact aatactgtnc agtatttctg ngtttttagtt 300
tttcccacag ctgttgaaaa tticagcctt gatttgaaac atgacctgca tgacaggcta 360
taagttgtca atagttcttt ttctttggaa aagtcagctg tggcatttac tcacttttagc 420
agatagctaa aagggaataa taagggaata atntnactg gacctgcagt naagttttgg 480
aatgccagg gtcaaaaacc gatgaaccac cnttgctgga aatnaaagg tntgcattgg 540
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gctaaaaana g

551

<210> 7606

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7606

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ggtctccata tacatttatt ttgtgtagac aacaatgact tttcaccatt tcctttcctg   60
tggttccatg gttctcaaaa tggtaatttc atttatacat agcaaaaagt tcacaaaacc  120
tttcagcact gttcacattt tcacatttgt ttaggaaaca atttgtttag gaatacagct  180
agctgatttt cttctgattt cttccacttt tggaatccca cataataata atgttaaagt  240
ataccaagaa gaacaggaag ttcaagcaag atacaaaaca caccaataca gaaaacaagt  300
ccggtagttt ctgaggagga tccagtgtga cagtcatcaa cgtcagaagc accatagtga  360
tgactgagat aagaaacaaa tattgtataa ttctggaaag aaatgtaaaa catggaagat  420
atttcctcac agaaatggaa aaggatttca actgcagtct tcttcagaag tcttttcaaa  480
tattggaaaa ggaagttcca caagctntta aaaatgccat ggtggcacac cganggcntt  540
ggagtcatcc ttataaaaag                                     560
    
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<210> 7607

<211> 421

<212> DNA

<213> Homo sapiens

<400> 7607

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caagttgatt ttattaacaa aaagtgcaaa ctattttgaa caaaagtaaa ctatgagtca   60
cagcattcag caagacatca gacacggaag agtgaacaat attcactaag taaaatacag  120
cagatgagat gtctctcaca tgtatattta attattcatg ctttttcaat agtctcttag  180
tcaactttca gtgtaatttc cacaaatata tagcagctca aacacaaatg caggagcaca  240
    
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atggcaaagt ttggcaactg ttttgggcta attatgagta tgaaagaaaa ccctatatca 300
 cagtttcacg ttcatgtaag ccactgtgca acatgaatga atctttaaat gtgttgacac 360
 tgaaatcaat gnncaactaa tgaaaataaa gaanaaaagg gggctttaaa anattngnng 420
 c 421

<210> 7608

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7608

gagaacttct aatcttacat gtttaatacc aaacacaaag caaacacatt catcatctag 60
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 atgatcatag gaaacaaaat gaggacagag gcactctggta tcttctaaaa gtggtacaaa 180
 actcccgctt gtcattgcat aaagctcccc atctggtgct gcgaccacc tccaagagaa 240
 agccaaagga acagaccaat aaaaggggtc cggggtgctt tctctatttc actcactcct 300
 cttatttgct aaggagctcc aataacaaa agaaatgggt cctagaagaa gagaactaaa 360
 tctccagaga gctgctgggg cataccgata aaaactggga gaaacaaaga ctgacagcag 420
 agaagtccaa tactgctgct aaagtttctc agcctaaatc cgggaaagag ctgggatcta 480
 ctgntttgtc agtaagagga cttttgggcc tggatgacct ttcacttttg cttgatgcnc 540
 cntntaaaacg gtt 553

<210> 7609

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7609

gcaagtttat gaatagttta ttacatttca gtaagtgtat tgtgaatcaa taaagcaaaa 60

gttaaggaca atgagctcat taccaagcca gttattgatt ctctggttcc aaaatagaac 120
 agtacaggaa gggatatagag aaaataggat ttttcatgat aaaaatttta agcatcttag 180
 gaacacagac ctaaagaaac tataagacac aacggaaatt tcagcagcta cttaggatgt 240
 ttattttattt accttttttt gcccaattaga attagttatt tggttttttac tcttaaaaaa 300
 aaaagtattt tcaactcaag tcagaggagt ttgccaaaac tgaatattac ctcttactga 360
 ctttaattatt ctttcaattt cttgtatata ttcctctctt gcctttgaaa agtttacctt 420
 actagctata tatcttatat cactgtcgta gtcagactg ccctaacaaa ataccatagg 480
 actggggngg ttttaaccncc ggaaattaat ttcctcacag tctggggatt agaagtcaac 540
 tcaaggngta agctg 555

<210> 7610

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7610

atgttttgtc aagaacttta attatctctt tacagggttt atgccagtta catacaagga 60
 tcttgcataat ctcaaggacc ctaaagtttg taacatcaga tatcggggaat aaattctatc 120
 acgttaccac taataaaactt attttacagt aagtggttgt atgatgccaa tactgactca 180
 aaccaacctt tggatagaaa agtgtttgag gaggtaggta aagaatgaca cttccccttc 240
 ataccaatgt ccattaagca gattgcttat ttaaaatggt aacactcacc acattttatc 300
 tatgttgaat aaatgtgggt ctgtgtgatt gtcatattata tctgatcccc aaatagctca 360
 tacaataatc cattcaatag aatggaatta aaactgttca gaatgatttt ccaactagca 420
 aatataagta tgcctgggtta agatatcttc cttttgtaga aatggtacat tgggatggga 480
 tagtggtgct ggcacagaag gccaaaatat tcctagacga gctatnctca aaccognant 540
 ggcttttaca tggaagagag 560

<210> 7611

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7611

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gacttccagt tccagaagtc gcatctggtg aaggagaaca cattctagca atgaatcctt 60
caaaagactc ctgccgctgc tcagtagctg ggactcctag gttgttgctg gaagttccta 120
agccctctgg agtagaaact gggacaggaa aggagtcgag aggcaaagga attctagcat 180
cacctgtaat tttctgaaac tggatatttt gcatttgccc tagggcattc tgcttcggtt 240
ctggtttttc atcttcaagc gccttctttt cttcttttagg tggattacta acagtagaag 300
tcactctgggg atgacctagt aattgaaaat ctgactgata tatcccagcc attgtggcaa 360
gctgcccag cccagcatct ttaaggagat ccaagaaagc atgaaacttc tgaaaagaat 420
tctcaatgct gcccaaaaca ccttcatcat ccaggatcat attgtcaat gactgtgcat 480
gaagggttc agaccaagag aaatttatat ttcttaactg ggcattttca tggtnagct 540
tactggctcg ttatta 556

```

<210> 7612

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7612

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aataaaaagc atgaacatca ttttcatgta catatgtgta tacacaaaaa gatttgtgaa 60
cttgaacaag gcaagagata caatctaaac tacaaagaga acaaaagcta acccctacct 120
tggtcccgagg agtaagagat atcattctga ggaacaccaa gtggaagcct ctaaaactgc 180
ccccctcccc agccaaactc tatgatcaag atagtaaagc aaaaacaata ttgtgggagg 240
ggtagtgagg ttataagat ataaaaaagt aaaatatatt tcatacttg taaaccctac 300
tatacatatt agtgcaggga gccaaaggcc catgggacat gacaaactca gcattccgct 360
ggaggctata tgatcaaaca gcaaactgtt tatcatgaat gcaggatgtg ggcaaactca 420
cactgccctg ccaccattgc cacagttacc atattaacag ggcttttnc tggacatgtc 480

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ctaggactta agctgggact tgctnggaa ggattttccc cnttactgaa tcccccgttt 540
ttccttgggn ggatcctt 557

<210> 7613

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7613

attgtagac cagtaatgca gttttcatat tttgtataac aaaaaagttg taggactttt 60
ccttcttact gtgaaaatat gactcattaa atacataact tttagtattg gccatttgta 120
ttcttatatt cttagtcaca aagataacta cgttttacaa agtcgaaagg ttaataatag 180
cagctagcat gaattcagag ctigctatgt attgagcact gggtttaaac acatatgctc 240
tattttatta agtccttata gtaggaaagt gaagaataca ctagtcactg aagttccttc 300
agtgtcaag actcaagtgc actatagcaa gacaaacacc aggaaacatg taactctgct 360
tcgaatactt tagcaagtga atggcccagt ttgggaaagc aagacaaaca ctggatccat 420
aatggctttt tacacctgat tggaatgcag aaaaaatgga accactaact actaatatta 480
tctttgccag caggtgacag tacatacctg acttcagagg attttattgg aacctcatag 540
atgatggtaa taaaacn 557

<210> 7614

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7614

gaaaaagagc ctacagcacc cccacccta cctcaccact ccccaaacca gctcaagagt 60
taaagccagg aagtggggca nactggggag aggaggcttg tgtggctccc tctagtgttg 120
gttcactgct gtgcagcaca cagcagtatc tgggtcaatg aggacatggt cctagccttt 180

ctttctccac caggaccctg acttatctgg ctggcccagc atggaggaga aggaaagcgg 240
gccgtgctgc cgggggggatt cctggatccc tctgcatgct gacagacagc tgtccacagt 300
gggtagccaa ggtgactggc attttgatcc cagctgaatg aagactggat ttgaatgcag 360
tgccagggtt gttctgtaga caagagcgaa cagtaccctg ttcgctccct tctgcagtac 420
cctgaggaag gagagaggca cccagggcac gaatgcagac aacagaggga ctggccaggc 480
tatcccgttt tcacctgtct gtgccacaag ncacccattc catacttcat gtcctangcc 540
aaagctggcc atcctgggna ccccat 566

<210> 7615

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7615

aagtccatta cagggcacat ttattgactc tgggtatctt cacagnnga tcttcaccac 60
agcttgcaaa gggtaaccac tcagcacctt ctgcttcctt ctgttcagtt tttccactgc 120
aattcttcca gcataatfff ctgatagcca gngtatgact ttggctttga cttgnttcta 180
cacaggggggt ccagtcattt atttctggaa cttgatcagt ctttttccag gtatataagc 240
aaatntttcc acactccaat cctactgnaa ccacgtatcg ttganaaggg nggagcactg 300
ggcanacgtt gacagctgnc acagccccac ccacgtccag gactgaggag cagggggccaa 360
tgttgggctc aatacagtca tcagnngagt cgcacacacc ccagacaacc acctttttgn 420
ctcgactccc agtgaagaaa tacttgctgn caggactnca atcacaagac ccaataattc 480
tactgggcnc agaantaatt tggtngggaa ngcaaaagct taaaactggt tnaactaggg 540
gaaaatggga nccggttttc 560

<210> 7616

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7616

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gagagctctg catacattcc cacttttcct gtcaaagtgg acaaaatgaa gagtctcatg   60
agtggagggg cattctgata ccaagagacc acccatctgt ggagtggcta cacagccaga  120
atgtggatgt gaaccaactc aacgtgctcc ccagagactg aagaagcggc gtttttagagc  180
tttggtttca gtctcttgga ggagattttc agaaatggcc aatttatgtg caaaggtgac  240
ttttctaggc acccaggaag gcaaatttaa gctccgagct gtatcaactg cattctgttc  300
ctatcatcag aagtctcaga attgaacagt aaatgggtgcc tacttggctc cttgtcaaaa  360
taagtctgca tggctctcac aacaaggcag acagctgttc gttccgctgg aaaggaaagg  420
agatgaactt tgttttgcct agcgttttgg gaatcgtgac cacaatttaa tacaatcagg  480
tgtagtttgg ttaaggaatt atcaaagatc atacttggct gtcanaatgg aattganggc  540
cgataggcag actttgccnt atgctanccg aa                                   572

```

<210> 7617

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7617

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gagacagagt cttgctttgt caacaggctg gagtgcagtg gcgtgatctc ggctcactgc   60
aacctccacc tcccgggttc aagcgattct cctgccttag cctcctgagt agctgggact  120
acaggcgtgc accgccacac ccggctaatt tttttgtatt ttagtagaga cgggggtttca  180
ccatgttggc caggatggtc ttgatctcct gacctcatga tccacccgcc tcggcctccc  240
aaagtgttg gattacaggt gtgaaccacc gcacccggtc tggaggtctt aatgggtcccc  300
cagagtcacc cgctccacct gcagagtggc agtaccaccg taacttgctc tacacaggca  360
acaaggccat tttcagctgt tactcagaaa cttgcttctt ggtgatatta ggtttaaaag  420
acaagaaaga aatcttattc tacagggttg gagaaaggga aaattataac acaaaagccc  480
acttcagtct ctgntgattc tgcaagagtc acagctgagt tctgaggccg ctttttttca  540
ccagcccatt tcanctggca gcacaagg                                   568

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<210> 7618

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7618

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atctccaaag tttatatttat atagcacaca tttatatgga actgtaacag tgtttcaaca   60
caagacattt gtgcagaaaa ataacaggaa ctcttttggt aggatgattg tctctgtttt  120
atacatgaaa gagctagtat ataaaaatag tttttaaacc aaaggtaacc ttctctattc  180
tatatcaaaa gtacaatact ctgagtggca aagaaccagg gaatctgaaa gaattacctc  240
cttttactaa tccaagactg gcagccaaaa ggaacactgg cctgcttcag actatttacg  300
attcaacact gaaaactcat taggagaatt aatctgcatt tgaattttat ggaatcatat  360
actgtgtgtg catacatagc tgtatgtaca tctgtgtgca tttctgtgtg cccatcacac  420
gaactcactg gcagccagtg gctagagaaa ggcaagcaaa ttttggttgn atctcaagcc  480
tgagtgtatc tcacgacaga actggagagt cnngcngaaa agactttaac attanaggaa  540
ttaacttccc ccnggacacc ggcctttctt                                     570

```

<210> 7619

<211> 500

<212> DNA

<213> Homo sapiens

<400> 7619

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agagaagaaa acaccatctt taatcaaccc gcctgcacag aaaccaggag agcactcccc   60
tccttgcaag gtcccagtga aaagagaacc tgggtcccctt gcaaaaacca tcttataaaa  120
acaaaaggct tcaaagcacc agtggctaca cccgttgagt agaaaggggc ttgggggaga  180
gttgggggtga gagaggtgag ggctggaggc agggctggcc cagtgaaggg cagtagctta  240
gcctgaggga gctgcccccc tctcaagctg taccaccagc ctgggagctc catgcctgtg  300

```

ggggccagag gaactcctgg gcctggctgc ttgcatttgg gatggtgggg tggggttgcc 360
 agccttgctc aggatatttt ggccttagag agtaggggaa tgatagattg gagggtagtg 420
 gganaagaac ggaatgggtca ccacagacag gcttaagtgn caaacatntg gnccatttng 480
 gggcccccca antnctcatg 500

<210> 7620

<211> 372

<212> DNA

<213> Homo sapiens

<400> 7620

ccggtatcca ctggaagttt atttcttttag ggttctatcc caaccagtcg cttaaaaacc 60
 aagtaacaca gacctgaggg gagggggctg gggactgcac ctccctccta ctcatggngg 120
 acagcagtgg ggactaggga ggggcaggag aggtggctga agcaaggcag cagtaatggg 180
 gccacgacgc cacagagcca gctccgtcct ntcccanacc ctggtgggag tccctgtggc 240
 ttgggggtggg gagtggggga cccaccccag gccctccctn tcccttcctc agacagcctc 300
 ctttngggct caaccattt cttccgcagg agacttgagg cacacagana ggangaagtg 360
 gnanaggang ac 372

<210> 7621

<211> 504

<212> DNA

<213> Homo sapiens

<400> 7621

gagacagagt ctactcttt ttgcccaggc tggagtgcaa tggcgcaatc tcggctcact 60
 gccacctcca cctcccgggt tcaagtatt ctcttgctc agtctcccaa gtagctggga 120
 ttacaggcat ggcgccaccac acccagctaa ttttgtattt ttagtggaga tagggtttca 180
 ccatgttggc caggctggtc ttgaattcct ggcctcaggt gatccgactg tctcagcccc 240

ccaaagtgcc gagattacag gtgtgagcca ccacacccgg cccccagcaa agagaatttt 300
 taacaactgc tttggctctcc agagccagtt cttggccctc ttcttactga tatacccatc 360
 tcaaacgtcc ttgctactct gngattggag aatatctgat caaccttntg gganccaana 420
 aagtagttgg gaaatgggaa ggtgggccaa naaaagaagg nagactcaat cggctggggg 480
 ttaccggggg attcaagtga ngcn 504

<210> 7622

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7622

catctgttgt ggtttttccc tgatctgaca gctcagcgga cttcctttct ggttcctgag 60
 aaactggaga tgtgggctct tcctcttctt cctcaggagg caggggcagt ggctggaggt 120
 agtaactgcg gggcttgggc atggggtgtg tgtgatacag caggaggtga tgctgctcct 180
 cgtacttgat cactcttcgg tccactcgga ctgtcccaaa ccaggcccag gacaaaggag 240
 ctgggttctt ctgaccctca aacaagtccc acggggacac cttctgcttc gtagagacct 300
 ggagaccctg ttttttatct atagagtcaa atccagcaat tttgtttcct tttgtgtcaa 360
 tcaaggaacc cataggttca caagtgatga catcacatgt ctgtttcggc aaaggtagta 420
 actgtcgaac tttgcaatac tttctgatcg cttggctcct agctcttttt tcaagtttct 480
 ttactaaaat catgtatgcc cccttggctt ntttaaatcc cccaagggga tcatttgata 540
 ggncaaaaagc ttaccgttcc attggntnaa acnccc 576

<210> 7623

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7623

gatagccatt ttaactgggg tgagacgata tctcattgtg gttttgattt gcatttcctt 60
 gattcagcat gtcgaatatt ttttcatgta cctgttggcc acctgtacat cttcttttgt 120
 gaaatgtcta ttcagatcat ttgccattt taaaaatcag attatttggc tttttgccat 180
 tgtttcagct ccttatatat tcttgttatt aatccctcgt cagatggata ttttgcaa 240
 gttttctctg attcaataag ttgtctcttt actctgttgg ttatttcctt tgctgtacag 300
 aagcttttta gcttaatata ataccatcta tttttgcttt tattgcctgt gcttttaagt 360
 ttttacctca aaaaaatctt tgcccagaac aatgtcctga agcatttcca caatgttttt 420
 gcctagtagt ttcacagttt caggctttac atttaagtat ttaatccnca aaataagaaa 480
 gagatttgaa anggatactt cagtccangc atagnngctc acacctataa gcctggcact 540
 ttggganacc aaggcaggag gacacntnn 569

<210> 7624

<211> 393

<212> DNA

<213> Homo sapiens

<400> 7624

aggtcagaga cagctggatc agctccagcc acatttatta caaaatagtg accgcagttc 60
 tggatatagaa aagatccctg acagcccagt acacctgcaa cggccccac cccacagagt 120
 tctctctca ggtgcctcag gtgtggaagt tctcagattc gaaggtttcc tgccaggagg 180
 gcgctgtacc gggcagttgt gaggggcagg taggcacctc cagcctggtc cagaacgtac 240
 agtgggtcag acaggggtgct ggggtcgaag cctcatttg ccatccgaac tttctgctgt 300
 ttgaaggctc ctgtggtggc caaagactcc tggagcctga ggaatcgggg cgggcataa 360
 ggnggcaagt tctnanacac ntggngtgta nna 393

<210> 7625

<211> 508

<212> DNA

<213> Homo sapiens

<400> 7625

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atatgcaca catatcctaa cattttctac tggataatat aacagtaaca gaaaagcatg   60
tgttggtaca aaaaagataa ctatagaatt gaccaggctt attgaatatt ttgngttcc   120
catgtgtaa cactgagtaa catcctcaat ttttaagnac tttaaaaatt gttttgtttt   180
tgaaaacttg ttttaacttaa cgatatttgt ttatagagtt aacataaatg tttgaggaga   240
acattacatt ctatacaagt gaggccctga cactntgaag ctgaggtcac agtttgnatc   300
aatatgataa atattcatta tttcattgna tagactgngt atatgaaatt cagtaatat   360
ttactggtaa caaatctaac angataatat gttaagaaat accaaattat atgnggggct   420
ctggcaaagtg aaccaacccg nnaaaaattt gacattnccg ggacacatta ccaggtttgn   480
cnaaaagncc ttatTTTTTT agccttac                                     508

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<210> 7626

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7626

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gtagaaaaat taatTTTTta ttgtgccgct ttcaaactat actgaatttt acatttctaa   60
agatgtaaaa actcaactaa tagaaaatat acatgaccat tctgtctaca tagataacag   120
aatctatgaa tcttgaaact aagtacatca atttcaaaaa gtattggtca tttaaacaga   180
atcaacaatt cggattgaca agaactgttc aaattaattt gacctgtaga ttctgagcca   240
tgTTTTtatt aaagtcagat ctattcctaa atacaaaata ttttgaagat ttattaaaac   300
tgaatattac aatgcaaggt aaattaagac taaaggcaca taaactttgg tcccacctgg   360
gttgtcaagt tttagaaaac tgccacaaaa ttaatcttcc tgcatatttt cgcagtacac   420
tttctttatc tttggaaaaa tacatgcccc agttcctgaa ctacttganc cagctgnaca   480
tgctcagaaa tccncaacct tnttccaaac ttaattccaa ctanggtggc aatntttntt   540

```

<210> 7627

<211> 518

<212> DNA

<213> Homo sapiens

<400> 7627

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cttccttgga gccttgtttt cttggtattc tgttgctaca tgtttcaact ctgggaggtc   60
aaaaggggag ggagctgggg gagtcttctt tgacagcacc tgctccacat cgcacatctc  120
tttcaggatc ttgctattgg ggggtggcaca gacgggatta aagaagctca atcctgggggt  180
cacctcggtg ggatcctcca gtttgaagga gccttcggaa tcctgggtcc gttcaacagt  240
gccaagcta tccttgccct gctggcggnt cgcacacttt gtggggncac aagcaacagt  300
ccacaccaca ggctgacttt tgcttctgc acccactg cttgnttnca caccaaccct  360
tgcangaaca cccttgaaat gttcttctg gacacctta ctaaatttg tggttncaa  420
ttccctcggc attccccnt aataatcaat naccattacc attcctnang ctcaattcac  480
cagaaaaggc ntctgnaaca aaaattttaa gaaccctn                               518

```

<210> 7628

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7628

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ggtgtgaagg catgtattct ttggaatg gcctttgaga aaagtaacca gggacctgaa   60
agaccatgag attgtggaag gcacctggac ttagtcctag gagaagacca gcggctttgc  120
tagctgtca tcacagatgt agcctagtgt gtctgtatta tccttgatg acaacggtgt  180
catgtgacac tatctagggt actgtggctc ttgtgcctga gtggacctg aggctgggga  240
ggccagactg aggggtcatt catggaagg caagatgtgt gaactctaaa ggggatgtta  300
gcactaaaga ctgccagcc ctggtcctg gaggtactat acttgatact gtgccaagtt  360
tagcagtagc ctgtaccatg gatcccatca ggtgaccaga ttcttgcca aagcaaagtt  420
gagagaactg gccaaagtct cttcagcact tagcacctaa cccagacatg ccccttaagg  480

```

aatggggaaa gttnctgnca cccagcacaa aaggctcaat gggaagttga atggccaag 540
aaaaactntg gccagntg tg 562

<210> 7629

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7629

acactctaca ctctattctt tattctggcc tggggcacaa gagcaaagag atgggccagt 60
gactcagtct ctgtctctag atatgcaagt tcctggtaca gctcagcatg gatttcagct 120
cctactacaa ccgggtacac atcctggggg tgagcacaca gcaaaatggg gtgggacgtg 180
cagagaggta tagggtaaag gcaaaggaag cagaggatga gaccagcagg ccctttctct 240
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ctgtgcgtga ggtgctccat actggcctgg ctatgctggg tctccctcca ctgagccaca 360
ttaaaggcca cagaggctcc aatacctggg aatgttcaca aagtcacaa ctggaaaaaa 420
agcaaaaacc cacgggcaaa ataaattggg actggttggt acaaaagtct ggcttgncat 480
gggggaagtc gggcatattc ttgnaagac ttcacttaac cttnagtctg naccgacnta 540
ggaaccccng gcacaacttc ttccctta 568

<210> 7630

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7630

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ggagactgag gccagagag gccagtgacc tgcttgaggc cacacagcaa gtgagcagca 180

gagctgggac cagaggctgg ggtgggcccc acctccagcc cctggctctc tccactgact 240
 gtgctgtccc ccaggaggac cccagcctct gtccagagtc tcagccacac ccaagccagg 300
 ctcccccccc ttgcagtggg gccgcctggc agcccagcag acaggctccc acccccatcg 360
 gcagacctgt cccctccacc tgcgccctgc aaaaagccag cccggagctg ggcccaggcc 420
 tgccccctag cctgctcctg atggtgcctg ggncgggntg gcaagtgggt tgggctggaa 480
 cctctttctg tttcctgagg gatccttccc acttgggaaa aaaanaanaa ggnggaanaa 540
 naggaggagg aggaaaaanaa aant 564

<210> 7631

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7631

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 atcagcaact tacaatcaaa taaaagacag atcaaagtat aagaaaattg tagacggtaa 180
 tattttccta atgacctagt ctcccatctt ggttttaaata tgagaaattc tagtagatag 240
 tggggatgga gctaaataaa cgaaaacgta aggaagtttag agaacgggga caaagactta 300
 aagatttttc aacgtaagca ctatttctcc tcaaccttgt tcagttttta atggatcatc 360
 ttattcaaca ggagccacaa cctgttttga ggaacaacca acaactgtgg gcctactgga 420
 agttcaaaag acgattgttc ctgtttctga ggttgacatc taaatgcang aaaattncan 480
 tacgattcat actgnacaat cntcaaggct acaactggac cagaaccntt ttcnttccaa 540
 agaacctgaa aatgatgcgt cct 563

<210> 7632

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7632

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ttgtctatca gagcaaaagg aacaaaggta aaaatccacc tgaaaaaaga tctttgtatc 180
atggaaatta tgaagctgga tttcttagac attaaagaaa ttcacagacc cacatagttt 240
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gaataccaat tattacctct agttat tttt agcaaggagg ctggacttca ctttacttaa 360
tgctagctta taaatttaac tttgtaaaat tatagtggga aatgtgtcct ggctagctgc 420
ctctgcccaa agcaaangca tctcccctaa gtgccacagt tctatctccc cgncttggg 480
ctccactgga acttacctgg gatccttntg gcccgaagcc ttntaataag agctcttgct 540
caatcaaaag ggggtg 555

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<210> 7633

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7633

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gagatggagt cgcactccat tgaccaggct ggagtgcagt ggtacaatct ccactcactg 60
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tacaggcgta tgccaccaca cccagctaatt ttttgtat ttagtagaga cgggggttca 180
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aaagtgctgg gattacaggc gtgagccacc acgcctagcc accaccgact ttttttaatt 300
aacaaaagca cattgggtgta caaaaagatg aatctaatat cgaattactc aagttcaa 360
ccaagctcca tcacctgcta gatacagtaa cctcagcaa gacactcaag gttgagtgcc 420
ttcaaattat atctcaaatt acttatctgt aaaatggaga taatagtacc cactcacaca 480
aatggaagaa caattataat taacttggtg aatggtaact attatcttac tggcctgatt 540
ccagaatcat catt 554

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<210> 7634

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7634

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aaataccatt ctccatacaa tttattgtca gcatatttac ataggggagt gttcacactt   60
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cattttccga cttttggcca gttcacatt tgtcagattg ttcattgcag ttctcaggca  180
attctgatgt tgctctgaag gagaataaaa gttaaaagta ttcactgcca cccactctgg  240
gacaggcttg gttgcaaaga aaatggtgtt cctggcgctg aaggataact aggaaaccca  300
tcaggctgag ctggatagct ttccagagcc gaagctgaat ggacctgctg taacaatgct  360
gactgcgcag cgcattatg ctgtaattct tgcaaggatg attgtgaagg attctgagga  420
aaccaggga taccggggag ggacaaaagg cctggaaaaa cagaactncc tgcacttgga  480
agtccagatg ataaccggtt gtgcaacaag ancgaggttg aaattggaac tgatgcttaa  540
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<210> 7635

<211> 521

<212> DNA

<213> Homo sapiens

<400> 7635

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atttactcag tgaatttatt gtaaaaataa agaaactcaa ttattccagt taatggattt   60
cacgttaaat agtttaactt tcaatgggct ttctgaagag ctgttcatag gatgatattt  120
ggaagagtcc tttccttaag gaaaaaaagg gtgaacaata aataaagagt tacttgcgtt  180
aacggtcacg ttatttcatt aaaagagagg aggagcagaa atctatgaca tagttgcccc  240
acatggcatt tatctgctgc aacagaaagc tgtaacactg gcgggcattt cacagtattt  300

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gcgcatagta aacttctgcc attgttaaag tctgagttag aattatcaat gaattctttt 360
 ttttttggct ttttaaattt tcttgntttt aaaaaatgga tttgggggtt gcagggtgga 420
 acccaaacc agtctggcca cgttccgtga aagtgtggg ccaaattggtt cangttctgg 480
 tccccttggg ccngnggggg gatggggtgg gggcatgnnn n 521

<210> 7636

<211> 573

<212> DNA

<213> Homo sapiens

<400> 7636

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 tacattaatt tggagagtat gaacgcaatc tggcaatata aaccattaac tatgaaaaca 180
 ttctatgcct ntaactcaat aatcactatt ctgggaatcc taagaaaata ttcttatata 240
 tggattttta aaagctttat gggnaaaaac ttttactgga anggtatttc cactttttaa 300
 ttaaaaaaat tttccctca ttttggaggn aataaatatn ctgnaaaata tttttaaagn 360
 aagaaaaagc ccccaaaata taatcccatc ccagaaataa ccactcttaa cactttcaac 420
 ttatctacca tttttnecca cttaaaaaat tatgncccgga agccacagna ttttcaccaa 480
 aaggccatcc gggcccaaaa cttgggttct aaaacccttt taccttaaaa agggacccag 540
 ggntccttgg anaacgntg gttntanggg tag 573

<210> 7637

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7637

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gtcccagact ccggaccatg cagcaggaca ggggtgggag gttgttgagt ggaaaggtgg 120
 agggggctac acatcaccta agacagtcac agaaaagatg ggcttcagga cactgcccct 180
 tcctgccctt ggaaatggcg tgcctgggca ataggacag gccacagtgc tgtgtcgagg 240
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 tgaaatccac aaatggcaaa gagaagctgt aggtttgaag aggcaagggg gcactgcaca 360
 cctncaggaa ccagttatga aaatgggttaa atttgatgat taaaaacaat tccatagctt 420
 tggcctgngg ctttgtgcat gggctggatt taaccctggg ntgctcttgt ggcaagtga 480
 ggccccagaa ggccctggaa ccacctgggc ttanccaagg caagtgncca aaacttttgg 540
 aatggaccng gggctntncc aatggangg 569

<210> 7638

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7638

ccaaatatta tcccaaata gttgtttaca gataagggtc aatacgaagt caaacattct 60
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 tctatctana tgtggctatg ttccatggga aaaatttcag catccaaagn gcaaagaaaa 180
 aatgactgta gcttttctta ccacaaaata ttgacaatct tcccttatag cctactcttt 240
 attgttagtt gggatgccaa aggatgatat attgaccttt anaagttggg ctccactgga 300
 caaggttggg ggtatggggg ccaagcatca gaatgaattc aattttaaaa gaaaaactgg 360
 ctttgacccc aaatgaaccc aaagttcagc cagcggcaca tcagagataa atccagttgn 420
 actttcacat ttacaagggt gtgccactca acactattaa agacctaatc atcccaatca 480
 aaagctccca tacttcata ctaagtctgg cctnaaggct tcccatttta tgaaagcttc 540
 ctattatgct taantcataa nggggan 567

<210> 7639

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7639

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cagagggctt ctcctttttt aatcaatgac caacttatcc agctttggaa atctggacaa 60
agagaaggct gagaggaggc ctggtccagt gtctaagggt ctctgagtga gtctgtgtca 120
gcatgtgggc ccagctggg cctgtccatg ggttgggcac agcagtttcc tgagtaagag 180
ccagccccac cctcaggga gcattccagc ccaaaaagaa atccaggccc tccaggttcg 240
gcctgttttc aaggccctca ggacagtcaa taaatagggt agattctgag ccaggcctgg 300
aaagtgaggg tattcaaagg gcaggatgag ctgctaggga tcgtaatgat tcccagggtac 360
tctctgccc ttctccaaca aggaagtaaa taaatagact ttttaactcag gaaccgggtg 420
ttggaacagg ggaacccttc ccttggaagt tagnaaatta agctcatggt aaaaacaagg 480
aaccccaagc ccttaccaga tntacaaatc ctacaggatg gaagggaagg cttgccacct 540
gggggtccca tncagcccc naggtcctgg gggaggt 577
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<210> 7640

<211> 503

<212> DNA

<213> Homo sapiens

<400> 7640

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gagacgaagt ctcgttttgt tgcccaggct ggagtgcagt ggcatgatct gtgctcactg 60
caaccgccac ctccagggtt caagnattc tactgcctca gcctcccaag cagctgggat 120
tacagacgcc tgccaccacg cccggctaac tttgttgtat ttttagtaga natggggttt 180
caccatattg gccaggngg tctcgaactc ctgacctcaa gngatccga tgcctcggac 240
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aggcctagcc ctgggctcac cntcatgct cccaagccaa ccctgagctt cctggntcaa 420
gggtagacct tttcccttta aaggtaann gtccagggag ctctatgana attgggggaa 480
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atgangngaa cccttacttc ctn

503

<210> 7641

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7641

cgtctcaatt gttttattcga ctcacagtca gtgcacacac tctaccatcc aaaagtcgaa	60
gctgtgacaa tcgactgcta caggcagtgc atggatgtgt aaacaaacac aaatgaaaat	120
gcaaatacaga gtgggcgggg ccaaggccca ctgttacatt cacagcacag ggtaagtga	180
aaagaacagg atgtcaggat ggggggcggg gagcacaggg tccttcctgc cctggaggct	240
gcctccaggc atcagcctgg gaggtgggtt agtgcccatg gaaccctcct gccaggaag	300
ctgcctccgg gcatcagcct gggaggcggg ttagtgccca tggatccggt gtctgggaag	360
gggcccacag aagatgggcc acaccagca tcattctctc tctgnggtgc gccctccatc	420
cccagacccc tttnccattt angggaaaag ggccctgggc acangagcca gtcctntgac	480
ctctgagtn gggaaaccca gaagggaang ggtttttctg naggcctttt aaacttggaa	540
aggccnaanc ccc	553

<210> 7642

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7642

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ataaacttta atttcttaaa actttttgac tctttggtta taatgcttag cttattgtac	120
agctgtacaa aatatttctt tatatcctta ttctataagc ttttttatat atttttttta	180
acattggaaa aacctttttg tgaaaaacta agatataaac acacacatta gcctaagcct	240

acacagggtc agaatcctca gtatcactgt cttectctc cacatcttgt accactggaa 300
 ggtcttcagg ggcaataaca cacatgaagc tgtcaccttc tatgataaca atgccttctt 360
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 taccctaaaa taatgataaa aagcatagca aagacncaa ccagtaacat attatcaagt 480
 attatgnatg ccctggacat aattatatgg accatccttt atatgactgg caccncnaac 540
 nggggtaang ggtggggctc aggtttacaa ngac 574

<210> 7643

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7643

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 gtagaaattt tctctttgaa ttttataagg aaaggctggg tacagtggct catgcctgta 180
 atctcagcat tttgggaggc tgaggcagga agatcacttg tggccaggag tttgagacca 240
 gcctgggcaa cacagtgaga ccccatctc taccaaaaaa aaaaaaacc ttaaaagata 300
 ataagtatct aattctttta tacttgcat tctctttgga tcaaattca actttgtgag 360
 aggtcataca tttctacagg gttaggagta ccctgcataa tttatacaaa tgtaaagngt 420
 atattaaaaa aaaaaagggtg aaagtacctg caatctaaan gggtttcttc cctanaaacg 480
 gcaccttttg gnaagggatg acccattttc ctatttatga aagcagggtt ccntgntan 540
 cctnccgga 549

<210> 7644

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7644

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tntttcgaaac tttcaaacag ttgggattat ttttgtttct tatcatccca attatttgct 180
caagtttgcc tccattgggt cccgttcana gtttcttggg ctgcttgtag tagtcacagc 240
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tgngatggng gccaggaaat gatcaaagg tagcatttag gaaatcagca aactaaagcc 360
tcaaatacaa ggtggacaaa tgcattctca actcaaacag gttgggtaat gctttcataa 420
gatcattatg tttttgggac ccnggcccc aaatttaata aggctacaac caggattcng 480
gaaagacctc cagctttttc ccaaangatg gncaagggca aaccaaacna aaaggngng 540
acccaatnga ta 552

<210> 7645

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7645

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tggttacaat cttggctcac aactggaagn gttacatact ttttacttcc cctcaatttt 120
atttttcccc aaggttccat cctaagatag gtagatctta tataaatata tatacnegtc 180
tgtataagta tggcctatag taatgaaaat atatagtaca ctcttcattg ggtagtacct 240
accatgccag gccaccaata ctgaatgcca atgngctaac gtatgtccag ggagagaggc 300
tgtgtgtgtg gtttacaagt gctgcagcac cagggaagcc ccactggcac aggtgtggcc 360
tcagccggcc tcagccagct ccctgaaatc atggccaatg gcagaaacca tagcactagg 420
aagggaangc caacttinctg gggctctggaa ggccaaagga aagcaaactg ganggggctt 480
gcaattaagg ttaggggaaa ttctttntga ggaaggaaaa ggggttaatn ggggggaaaa 540
nccttnaatt tanggccncc t 561

<210> 7646

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7646

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gatattttca taacattttc tttacattt aatagaaact atatacaata aatttttact   60
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gaggaccag tcctgtgggc tgttttctca gaggataaaa agccagagtt caccagggaa  180
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atagagataa ccgatattag ggccatcagt atctcaaaga ccactcaca agacagctcc  300
cacctagcta ctttaagtga tttctatcca tgacttggga aatcccatta caaagatgtc  360
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ttctcttcct tgccctgagt ggggaagaaa cccacgggcc acggctcctca aaatnngnt  480
taccgttnga ctataatact caatccngaa gaaaaaccag ggtaagctng ggttgccggg  540
gttttgnag anatgatccg aaatcctt                                     568

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<210> 7647

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7647

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ggagacggag tctcactctt gtcaccagg ctggagtga gtagacgat ctcggctcac   60
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cctccctaag tggtgggact acaggcgtga gccaccatgc ctggcccaa ccagaacact  300
tctgagcgtg gaagaggatg ctgttaatta ctcaagacca aaaggcataa aaggagacat  360

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atgtccaccc aagtataag gcagtttggg aaactacatt tcccagtatg ccctgcccct 420
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 taagaagtna aaaggatang ggttgggntc tgacntgaag ggctttcccn ttcattgggac 540
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<210> 7648

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7648

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 ttcccaaaga ggtgacggag ttttgggcaa gggggatcac ttggttgggg cctgcgttgg 540
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<210> 7649

<211> 581

<212> DNA

<213> Homo sapiens

<400> 7649

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aaggtccaga gaatgtaaac aaattctatc tttaaaaagg cttactgaca actgcagact 180
caaagtggct acaaaaaggaa aagtattgta aacatttgc tcttaactct aggcactaat 240
ctcctaaacc agttcaactt gataaggaaa aagacttgag attcactcat ttataactta 300
gtagcaatg tcattgatca ttaaagatat ggaagaataa tggaaaactg gatttttcac 360
taatgcaaaa ttaacaacaa tacctcgacc cccattaaat atacagatgc caccatctct 420
tccatcatgg attttatttc ttcttagtgt agggattact atctgnctta atccagactc 480
cagccattgc attggcaaat atttcattgg cttctataca gcctanacca gaaattttta 540
actaggaatt nccccattct ggncctccca natttggtgg g 581

<210> 7650

<211> 587

<212> DNA

<213> Homo sapiens

<400> 7650

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tttgacatgc aacagggagt agccacgtgc tcgctcgctg gccactgtgc ttcgaaacgt 180
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tggggcatct gagtgattcc caggaggggc agcttggcct tcctcaggct accactgcag 360
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tgcanttagg aacaccctac aaaattgacc acagtatttt ncaaaaatat cntttacatc 540
ctttaaataa ttacaaaag ctccaaaatc ttnttaccng gaccctg 587

<210> 7651

<211> 588

<212> DNA

<213> Homo sapiens

<400> 7651

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ttataggcac cccccaccat gcctggccaa tttttgtatt tttagcagag acgggggttc  180
accatgttgg ccaggctggt ctcaaactcc tgacctcagg tgctccaccc gcctcagcca  240
cccaaaatgc tgggattagg ctgctctttg agagctttac aaatttattt aatccttaca  300
atgactctga ggtagatctt cttgtctctg ttgtagata agaaaactgg aactgtcaag  360
aaacttgctt aagatcacag agtgcattag gcttggatcc ataatacaat tggaaaaaaa  420
gaaaaacaca aagaacaatt aagactccaa agccctaata ctaagcttt ggatcctatc  480
acactgnggc attatatata taaaacaaaa aactttataa taaagagaaa tggattttnc  540
caactggggg ttttcagata caangggctc atgaggacnn tttgtaaa                588

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<210> 7652

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7652

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aatcagtgtt atgtatacac atggtaagta actccatggt atagaaaaac tgatgatgga   60
attcaatagg tgcactctgc ctttccattc ccaagcccac gctctagagc aagcctggta  120
tagcttttgt tttcagttct tctgagggtt aaataaaacg agtaggtagt tttgtgaatt  180
aatattgcct tataatttta agtatagtac atgaccacag tggagtgcct tagatacaga  240
tgtatgagtg attagttgca ggaaacacaa actactgtag ctagccacat ttaaaaggac  300
tgtaaaacag ggaactggat gcttgcaata ttgtcacaag ggctaggagt gggttccata  360
ctgggtctcc agaattaact ccagaaaaaa cactgcaggt ctgtctggct tgccagaggc  420
gctgctaccc cacaataatg agaaaggatga agaatacagg ttgcatccac cagccactt  480

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gcctcaacaa ctgactgcaa gaattctgct gcagggaaan tnaatggctt cttaccaca 540
catgccaanca gaacacagcc angangaaaa tgntnt 576

<210> 7653

<211> 573

<212> DNA

<213> Homo sapiens

<400> 7653

cattactcat atcttgattt ttatttctta tgaaaatggc tacccaaaga agtcattgta 60
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acagaaaacc cttccccagg gctgtaatgg gcatttaagt ttcccaaacc cagggacaac 180
taatttttat tacctattga atagaaacaa atggatttta atagtcccc tcccctatag 240
ctgaaaaact ccacaaacaa taattgactc tatctacatg atctgttgac tcacgccaga 300
aatagttact aaaacactta gaattgtgat gttcaaaactg gcctctggct acttctgggg 360
ggttatttgg tgttacgcaa cgacatattg ccagcgacat ggtgaatata ctgnccttat 420
agtcagcaat gtttagttga ggctaatac gtatttattt ttcaaaaagg gtaaattgtaa 480
gcttttccca gctgaaatat ntngaaaacc ccaatgnttg aaccagggtt aagcattggn 540
ggtggcaccg nantgggctg atgggncctc ctg 573

<210> 7654

<211> 587

<212> DNA

<213> Homo sapiens

<400> 7654

gcatgtgcac acatgtatac atttattgca taaaattcat catagcactt tccccatat 60
ttttataatc caaaaggaaa atgattcaag aaaggatttc attgtgctca gtttcaaaaa 120
atataaaaat ggacatcaga ttagagatac aagttcatac gctgaactga attgtacata 180

ccaactgcct ggctatggaa acccgtgact tgacttaggg gtgctgatga catgatctcg 240
 acaagaaccc cctagcaact ctcaggtgga ggcagcacag ggatgcggtt cctggtgagg 300
 agggtcctca ctcggtgacc aactgcctg ggctcacagc tggagggctc acccatgagg 360
 gacacgggtg gacacccact gcttcacatg cctaattcac attagaaaca tgtaaagcca 420
 ttcagtctgt gcaataaaga gacctgtat gaaatccact cattcctttc taacagctaa 480
 agctcaaagg catactggac ccttgangga aaacaggaga acctgaaatg ggaagggaag 540
 aaagggttg cacnttaca gagcaaatg ggcaacngga ccgggan 587

<210> 7655

<211> 462

<212> DNA

<213> Homo sapiens

<400> 7655

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 taatcagcaa attcctgcct ggctcagctc tggtttatgt aaatagtgcc cagctgtaat 120
 gagttacaag gngttattat ctcacacaca cacaggaggc ttcactctag agctccgctc 180
 gcaacaaaag catcttaaatt aaactgagag aagcgggttg atttgtaatg ntttcacaga 240
 agtgggatat acctcaccca tatagagttt ctttataatga ctcatcttat agcaagttaa 300
 atgaaggaag ttttgatggg gggangggag gggcaatatg gttccccacc ccctttcttc 360
 actttaagaa aatcccccaa gagatgacct cgcaactgagg ggaggagggg ctgggcctca 420
 ggngctnana ccaaggnggc tctgcancac tgcttcanaa nt 462

<210> 7656

<211> 533

<212> DNA

<213> Homo sapiens

<400> 7656

cgagtaagct ggtaagtggg ataataggaa tagtagaaga atatgccata gctatggctc 60
aagaatagga ataagaaaaa tgtgcagtag acgctgtttg tccgacgatg atgaaagtgt 120
gcacggccgg ctgtcctccg attgaggggc cttgtcaagg cctcanaggc agcgagggtca 180
cagcctgggtg gaggggtctgg gtgtgcgctg tgtccatctg cacctcacag acaccagtca 240
tgggggggatg aaaccggggc aagaacacat gtgtgcacag gctgtgtgtg cctgcatgtg 300
tgggatgcgt gtaggctgtg gcgggggtgg agatgaggga taggacagaa aatggcccat 360
ccaacccac atcctggccc ggcgtgtcca aggtccctgt ggggccnagg gtttggtgc 420
cccanacgtg acagggactt ggctttnagg gtcaaggacc tggctgggaa caccatctt 480
gaaaaggaac nnaaaccagc ccttggaacc tnnanacccc cagagcttnc tgg 533

<210> 7657

<211> 485

<212> DNA

<213> Homo sapiens

<400> 7657

acatgtctgg agatgttggc ttggttatga attcaaaagt tctcccagag ttcttgatga 60
tgattcatag agaaatcttt caatgctatc ctcttccaaa gtaatttcca tgaatgtctt 120
tagttttctg ngaacagngg ctgcaacctc cctcactttt gagcttttat gtttacctgc 180
attaataacc aggataatat gcacagcagc cgtgaggcac acaatgcctt caatatcatt 240
agaagccaca catgccttta attcatccaa aaatgacctg accacattcg aagactttat 300
tattattcct attaaacacc ttgaaaatgg ngggaagatc agaaagatgc tctggagggg 360
taagctcttc tacgtcagaa accttccgta actgnggact tatctnaacc acaggcccan 420
cgatcagagt agaaaggtcc ccccgngca caagggtgnc tnggtgcca gactggacca 480
gcngt 485

<210> 7658

<211> 503

<212> DNA

<213> Homo sapiens

<400> 7658

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gcaattctgt aaggtttatt gaatgggtgg gtaaaaagt aacgacagct acaaattcaa 60
aaataaaaact cttggttatt aaagtcattc caggcatgga cagagggatg cgaggctggc 120
cttccctgtc cacggtcctc tgaggcagct gaagtctccc atgtctggac cccgaatctt 180
gtgcagattg aacagtggat ccgggggtgct ctgagcaggc agcagggagc agctctgggtg 240
acgtttcatg tggtagcctc actctccatt ctctgcccct ctcgtgcca caaacaccac 300
caagagattc acggtgagaa atatcagcaa acccagatcc cagatcacca actccatggn 360
cttaggactt ccttggactg nccttggatc taangctgag accttacaag caccgnagct 420
tancctcttn ttgaanacac gttacctggg gccctgggca cacaggacaa angtaactg 480
acaatccttt ggtttctgnn tca 503

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<210> 7659

<211> 471

<212> DNA

<213> Homo sapiens

<400> 7659

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caatagaaaa aacattttatt atatatgcat gcaagaacac tacaaagagt agctctctga 60
acagcaaggg gtaagggttt acagatcagc tttatgggtg gtgtcttaag gcttcagaat 120
gaaactacaa aaagtictga taaggcttat ttacaatacc ttgggaggtc ctagtgctaa 180
gtgcccttat aagaggaaca ctgagaggag ggttttggca gctgaattct cggttaagacc 240
tgctttactc atcaaagttt agctaaggct ttttgtctgc agctgctggt tgttcagata 300
ttctcaaagt agacttgat catattgatg gggtgttagt cccttcattg ccctatttga 360
aacttgacat gaagtttcac tgacaaggag ctgtgctgat tgctgtggan ataaggctag 420
gttcanaggt tggganntaa gggatctgcn anatttgcga aagacncgan c 471

```

<210> 7660

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7660

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ccggtagtaa aacatttact agagagcaag cagaaaggaa tgcacatctt aaagaaacct 60
tcacaaagtc acaaaagtca aagtttgtat atttcttttc ctttttataa acgataaaca 120
aaaatcatca aaatcatttc agcaaaagac ttttctatca ttggggcaag ttaaaaaaaaa 180
tacaatgaaa tagaagacac tttaaaagct gttgttgggt ctcttgttta attttaaatt 240
tagcaatacc atctcaaacc tggagcaatc ctggaacagt taccaggatc accttttccc 300
ttcaatcctt gtggcttctg ggaatcttca gagcctgggt ctgaaagggt tttcctacat 360
gtctcagggc tggatgcaaa cctggctggg gacctgagca tcaactccca tttagaatca 420
gacatctccc ttccctgcaa atgtctacaa ctaccaaatt gtccccaaca gttagctcaa 480
tggattgaat ttgcagaagc ccacttctaa aatgggggact ggctggccat acactaagaa 540
aaagactcaa ttatagatgc tatanggggc cc 572
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<210> 7661

<211> 176

<212> DNA

<213> Homo sapiens

<400> 7661

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catataaac tatttattca taaatatatt ccaaaatgaa aataggttta ccaaaaaatg 60
tccctcactg gggaggggag gagggggcag ccctcgcccc cgggccccca gggnggggct 120
gngaggaaaa cctcccggcc ccctccctgc tncctgggag aggggggatgc ccnnnn 176
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<210> 7662

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7662

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gacatttgtg caagaggcaa ggtgaatgca tacatattaa aatgttcaca tttaatggga    60
agaccacaca taatggcagt ctacattgaa cccattttca agtatttggt cacagattct    120
tctgagtact gttatcagct ctttatactg gtaaggtagc ccctgtgagc tacacatctc    180
tttagcttca aacaaaagaa atggaatgac cagcaccttc ctttgttttc aggcaagtac    240
acagaagcct tgctgcagta gctacatgtg gcaagttctg atgttgccaa agttagaaag    300
agtttctttg gccacttggt tctcctaaaa tacaagcgag tctcttgttt taaggtaccc    360
ttacaacatc atcctctcaa caacacggac aggataaagc cacatgggaa tagcacactt    420
gaggcctagt atgtgtatgt gttcagtggg ctgacagatg gggtttgagg aacaaaggaa    480
ggctttgggtg gcacgtcagg ttttaaggac ggggtcctct ttantcccgt cctangaaga    540
aggcccttac tggggtaact gctctgctgg anagg                                575

```

<210> 7663

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7663

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cacaaatagc acttttttatt tgccactatt tgaagtctga actttaaaca gattcttggga    60
ctggtgggttc atatccatca gctcgttcaa ctttagcacc tgtctcgtcc ccagnggctt    120
ttccagaact actgtgatga aaggaaaaaa aaagtttaac tttccaaagg taatgctttc    180
atgaagagtt agaaatagca gtttttagtaa ttagttgtag gaattctggt taagacttca    240
acattttacc ttacttaaaa gatttgcttt atgcaacatt taatgcccag ttttgcatgg    300
ctctaaaaat ctttaaaatg caaaagcttt tccagtgact ggaagccaac acgacaagaa    360
tgaaatggta tgacctgtga attagcctgg ttataaaaa aataccagtt cagagaccat    420
aancaaaata aagaaactaa gcaatcctta aattggattt agccttgggc aattagcaga    480
aaaaattcac tcntaaaagg atcctttttc agaattattg ttttttaaaa ngtagggact    540

```

gggtttataa gagtaaaaag tttta

564

<210> 7664

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7664

acaatttcag ctttattgac cccctaaagt ctacaaatcc ttgggactct actgaccctt 60
gctgtaaagt gaagggagtg aaagtatttg gaatataggt aggacctcta atataataaa 120
gatgtcactt taagatcaat ttattcaaca aacatttatt aaacattcat atgccaaaaa 180
ctatgctatg gagatgcaaa aaataaaaag gttccttttc ctgcccttaa ggagctcaca 240
ttctagtaaa gacttttgaa aaataaaaca atacagtacg atttaagtga catacaatag 300
aggtagggtg taattacagn ggtgacacga aagtggaggt tagatgactc tccttgagtg 360
gagcaaagga gggtttcacag aggaaatgct tatgtcaggc ctgcaagatg cataggaatt 420
tttcaagtgg ggaaggatga ctagcacact tgatgccaaa gaggtccagn ntttaccaag 480
gcggaaggcc tggccaaatg gggcttntga aaaaatgtaa gctgttcacc agaacattcg 540
gggngngaac ccat 554

<210> 7665

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7665

gggctttgcc ttaggttgag agagccgttt tttctccaat tcaatacttt ttttgccttg 60
aggaggccgg gaatgatctt gcatggaagt gagccacttg tgcacacaaa agtcatctgc 120
ccctgaatag atgcagtctg gatccaaagg agaccatgcc acacaaagca gtcgaccttg 180
atgtcctcgg aaattgcaca ggggtcttc ccggagagca tcccacacct gggctgtacc 240

atcataggaa gcagatacca gccttccatc atgatgtggg ctccacgcca cactggtaat 300
 cttggccgta tgccctgaga gggtcggta gggctctgta atggtcactg gagactcagg 360
 gctgctctct atgacagtct tcaggttgtg cacgtaaattg actgcattgt tggagccaga 420
 ggccatcaga tagctcaatt ctggctggct gccatgctca tgatgccagc tnatggnatt 480
 cacaagcttg ngaagctgtt ggataagtcn anacagtttc anggtnggga atctggaaat 540
 atttctattg ga 552

<210> 7666

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7666

gagatgggtgt ctactctgt caccagggt ggagtgcagt ggcacaatct cagcccactg 60
 caacctccac ctcccagggt caagcaatta tctgcctca gcctcccag tagctgggat 120
 tacagggtgcc caccaccagg gaaaactaca ttttcaagg gcattcgaga tgccttaaaa 180
 ccaagaaaac ccaaaagaat taatctcatc tgattaattc tcatcagtca ccctgtattc 240
 acttcatggc ttaccctgct tttaaaaaac ctgactgtt tctggtttta atccttaact 300
 acctcaagaa tccagaagtc ttagaaatat ctaaaaattg tagcatctct gagcaaattg 360
 acaggctcca gtcaatgtaa aattattacc agctgcttaa aaaaggatcat ttgtccacac 420
 cataagcaga aaccgaggag acaagactat aaactagaac caaggctgac aggcaacagg 480
 aagaaacagt ccagatccag gantggggag tgggcaaanc caagcaaacg gcatgantgg 540
 aangggattt gaaactaagg tag 563

<210> 7667

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7667

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ccatccaaga taactttatt ccattttgca ttatttgata actatttcct tccccctccc 60
acctccaact gcatctccta ctctgaaatg cctnttgagc agccaagggn ggccagttct 120
gctcctcatt ttcctgaana anaatctcag cctgaaagaa tatagagcta ggngacatat 180
gggtggccaa ccgnttctcc tcaagttcca agagagnggg caattagnga aattccatca 240
gtcatgttaa aatatacttt caccaggtag acatccttct ttcaatgcta gaggacagtg 300
aaaaatgtag attaatgaga tctgtaactg ncttctctta actgtacacc cctcaggctg 360
aacgcgggag tgctgaacac atgccctcgg aaggggaccc tgaagaccca agtgacctgc 420
ccataaacca ccccgagggt caaccttgct gccagccttc aagaaggcag cagggggccac 480
ctgnntggaa aacctgggca cgggttttgg ngncctggnc ctggcctggc ntcttcaagg 540
tccttggaa caggtttn 558
```

<210> 7668

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7668

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gcatcttaaa gactttatgc taagtgaac cagtcacaaa aggacaaata ctgtatgatt 60
ccacttacat gagaaatatg agtagtgaag ttgatgatag agacaaaaag tatggctggt 120
gctaggggag ggggaggtgg ggagttattg ttcaatgggc acagaatttg ggaagatgga 180
aaacttctgg agatggatga tggatgatggc tggacaacaa tgagaatgta cttaatccac 240
tgaattgcat atttaaaaat gggtaagctg gtcagtttta tgttataaat attttaccac 300
aataaaaaca nattgaactt aaaaattcac tgaanaagcc catatggaaa aaggactaaa 360
tgttaaaaaa aaaaaaagcc aacttttttt ttttttaatc angagataag tccgtagctg 420
caagctcaag gtctcggttg aggacantca ttatgagtc tagtaaaaga caaccngttt 480
taagaacact gtcaggcnng ctaccatgta nttctccttg gcttccatgc ttacnttttt 540
nagactttcc agtanttcca aaggg 565
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<210> 7669

<211> 443

<212> DNA

<213> Homo sapiens

<400> 7669

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ccagagacaa cttctaagtt tctctttatt tcttttggaa acaacctcca ttcttcatct   60
ctcaatgtag tcctggccta gngaaaaaga aggcttttct ttctggcctc canagactgc  120
ttcctttgta ggaaaaggaa caataaacac ttcccattag gtttctgtct ccagatacca  180
atcaggggaat gactggccag gactggaact taacggcctt ganaacatgt gggatttgtc  240
tttgagcccc attggcttgt gatgttttcc tctgnccctc ctgagacagt tgctcctgtc  300
ctgggggggct ctgcctccac ctcccagncc aggatgtctg aggtggttgc aggctgcttg  360
ctgcccagtt tccagtctgt tctggnccag ggaagcacca ccccatggcc cttgctgctt  420
ntggcagggg ncctnannag ctn                                           443

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<210> 7670

<211> 773

<212> DNA

<213> Homo sapiens

<400> 7670

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aatatagaac agtcaggttt tattactttt aagtaataaa gagccttttc cttgcttttc   60
ttttttccct ttttttcttt tcttttttct tttcttacia catacattaa gtcgtgaatc  120
agatgttagg ggatgtggag atggaaggaa aattggtgac atcacaatat ttttacaact  180
ttacaacaaa tataaatctg agtttgttgc atctaccagt gtctagcaag ggtggaaagc  240
aaaggcacac tcgggtttat ggacctccc cccacacaca gtggggaaaa aaactgggga  300
gaaatactta aatgcagaag accagctcaa tacatgtggg tatttttaggg ttaacaccag  360
aagtgatggg ttgtgggggt gtaggaatgt ggatgtaagt ttgacacag gtctccttaa  420
cagctgaggg agtgatgcct acaaacactg gacaagacag ccgcttacgt caatgatggg  480

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tgctgcactg ccagtactct ngggagtcaa gcatgggaaa gaagggggca gggggataca 540
gacccatcac cttcctaatt tctgcatttc tagagaaaat tcaaggaaga aaacaatatt 600
tcaggttcta ggaaatactt cagggtttca ggagacagag ttcacaggat gtgaacatgg 660
attccattca aaagccaaan nnaaaaaagt aaaancacac aaccacctac tcctaaatac 720
agcaaaacta agggcttttg gaacaaaggc tnttaccccc ctnagctaag nct 773

<210> 7671

<211> 868

<212> DNA

<213> Homo sapiens

<400> 7671

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gagatatatc tacctattta tggatggata ataccatcat ctcataattg tggaatgctt 120
tatagttttt caaagtactt ttattcactt tatcttccat atatgttata tcctctgatt 180
ccagcaataa cagcccgggtg aggtagccag ggcaagtatg tattttacac attagcagga 240
agggaggcta agcgaggttt atgtaactta ctcaggctga aacactgaag aaaaatttgn 300
gactctcatt tcagngatgt tttctgcatt attaaaaaat attatgctac tcctcactat 360
attatgttga tggttgaaat gtcattataa agcttaattt atatgattct cttgatgagg 420
atgatgaagc aaatgctcca tcaactcact agttttacagg ggcaagcatt ttcctacatt 480
tcacacataa tttgattacc tctgtcctaa gtgaataatc tactatctgg gtatgagaaa 540
catgatttga aaacactaaa ccactatatt atttcaacaa agaaccatct ttcacaccta 600
agtaaaaagg aacttcaaaa aaagtcctaa ccaaaaaaaaa tccaatgat gcatgaaatc 660
aagtcaaaat tgggtatctt ttatccggtt cttcggttng gtgaanaatg ttgcctggat 720
tccttccatc taaaacttga tggtagacct gnggcanaac tctagaaccg acttttagcct 780
tggaancca agaggccaaa cctaaagctc actttctgca tggatgcntg atcaaggagc 840
tcttctgctt ggaaccggng cttggaan 868

<210> 7672

<211> 388

<212> DNA

<213> Homo sapiens

<400> 7672

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gccaaagataa atcactttta tctctatagg gaaagggagg atctaaaaaa aatataaatt   60
acattagtaa cacaacataa gaaaaagaca gggacaaaaa caacagaaga agtctgaatg  120
atgctaccct aacctattta taaaaaggcc ctgcatcaga aattcacaat cctaccact   180
tctaaaaata tatttagaca tgtacagaag cggtgggctt gtttttaa at tgtttgcttt  240
ttttgtaaaa atatattaaa ggtgaataga aatcctctct ccttcccc tgtccagccc  300
ccagctaggg actgganatc aggggtaact atctcatggt gttctaaacc ttgattacta  360
acactcccaa cccctcccca actcactt                                     388

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<210> 7673

<211> 360

<212> DNA

<213> Homo sapiens

<400> 7673

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ganatggagt ggantgcant ggcgtgattt cagctcactg taacctccac cttgcaagtt   60
gcagcgattc tcatgcctca gcctcccgag tagctgggac tacaggcatg tgccaccaca  120
cctggcta at tttngtnnta ttagtanana tggggtttca ctgtgttggc cgggctggtc  180
ttgaactcct gacctcaggt gatccacctg ccacagcctc ccaaagtgt gggattacag  240
gcttgagcca gtgcacccgg ccgactctct accanaaact tttcttccaa tatgaaggaa  300
gcatggagtg tnggctacag tcaactaatg atccttccaa gttcaaantc atgataattc  360

```

<210> 7674

<211> 378

<212> DNA

<213> Homo sapiens

<400> 7674

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cacaatgaat aatacattta ttaaacaat tatttctttc ctacatgatt tctctgatgt 60
tacattgagg gttgacttat ggcagaaaaa ttttccatat tcattacatt tataaaattt 120
tactcctcta tacatactca cagtttagca ttgtgtaagt tatttgattt gttgctttgt 180
tggaatttat tactttgttg gaacttattc cttgtgggat ttctgatgta aaanaaagtt 240
tgatntgtgg cgaaatgttt tctcacattt gttacattca taaggtttct ctctgtgtg 300
tattttctga tgttcagtga gagtccacag gcgacggtag gtttccacac attgattaca 360
ttcatatggg ttctctcc 378
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<210> 7675

<211> 377

<212> DNA

<213> Homo sapiens

<400> 7675

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ccgtgtcatt ctcacttcta aatagctcta gacttgggtc cattgcacta acttaattca 60
ctctccatca tctttggctt ggantacaac tccgtccttc catctaactt gcctgtctcc 120
aatcgttctc ccctttgatg tgnagggcan ccaatgatct ctctaacatt tacanaaaaa 180
tgcaccactt gggttgttta aaacccttca atggcttccc attgccccaa gttcaaactc 240
tgcaatgtgg cctacacatc tctctagntt cacctcctgc tcaatatcct acagcacagt 300
gaagttcttg gtggtcctca aaagggccct caaacttcaa acattccctt caaccttaaa 360
atcctcaatt gggaaaa 377
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<210> 7676

<211> 223

<212> DNA

<213> Homo sapiens

<400> 7676

gagtatgatg tttaatgtaa gatccagtgg cttggcanag ttggtgcaaa actgtaaagt 60
 accanattaa gttctagtca gtgagttagc agcctaggca cttgggcaaa aaaattggcc 120
 ctgctgtccc aagtcctcca aancctctc cgtatcacca gctagganct ccaanactga 180
 tatgccacta cttggaggct tgantnaaat ccacgcgtcc tca 223

<210> 7677

<211> 379

<212> DNA

<213> Homo sapiens

<400> 7677

ggtttgaaat atctttttgc aatanataat cttattttaca ttaatacaga atcattttac 60
 attcctaaat cagacactaa tagatgcttt attttagtga attataaagg aaaacaaaaa 120
 ggaaactggtt gagaagtgtt cttcattaac ctgtctaacg acagcccgaa gatcctgaaa 180
 cacatggaaa ctgcgacatg ctaccagcag aggctgggga atgggggttc tgctctcact 240
 gaatggtggg gaaccttcaa ctgcttagcc tgtgctttcc ttttctgaat caacatttac 300
 aaaggaaaaa acaatgatta gcaactgaata atttaaacnc acttcagaaa atanatgten 360
 acagtgttag tggganaac 379

<210> 7678

<211> 376

<212> DNA

<213> Homo sapiens

<400> 7678

aaaatatttc cttttattct ggaacaaaaa ctggagaaag gacaatgatt ccttcagaaa 60
 gcaatgactc aattcaggtt gttactttac atttaagtac cactcaaaaa gtggacataa 120

aagcaagtga ttcctgtttg cccatcacta tatcagctac atagctgana nttcagatct 180
 taattacaca acactttctc tgttaccaga agctaagact gctctgcgac aaataggaca 240
 ggtngaattc tcagataacc agcgatcgat gcagtggaca tggctactcat gggaaacaag 300
 gtantttacn aagtttgttg ccttctggta tattctgtaa tgcaaact acagggtttt 360
 taatgcatca tttttc 376

<210> 7679

<211> 386

<212> DNA

<213> Homo sapiens

<400> 7679

ggtagtcaaa gtaaagggtt gtccttgcac cagaatggtt taaatcttgc aatttgcata 60
 tacaaaggag ttcagcaaca ttcactggca ttataatcag agcaagatca aattataaat 120
 gtaatcaag aaaatatgat agttgaactg taataacata catacattat aaagactgca 180
 cataaattaa acacaactta gttaaacaaa caaacaaaaa agtatcagta attatacact 240
 taaaagaata acatggggat gtctccaaat gctgaaacac aggtgtcagg ctcatTTaaa 300
 aaagtgttta aaaacncata aaaatacctt ttaaaacact ggtntgcatt cttcattcat 360
 atagcacatg ggagaaaaac cgtaaa 386

<210> 7680

<211> 285

<212> DNA

<213> Homo sapiens

<400> 7680

tnagtTanat acagtgccta taangaacag acgcccagcg caacaggtcg aggcctttgt 60
 ccttgatgat ttttttttcc tctggctacg ttcagtccga ctgaagtgca gcgctatgca 120
 tatgtnaaca tattcggtan agccgatcac ctttaaggtc attcgga aaa aacggtcctt 180

gttttcgctg tgtgggtgtg ggtcntaaca ccagtctcat tccccggga ggaangctct 240
tgggcgttgg acantccac tcgggttgtg ncacaggac aatnt 285

<210> 7681

<211> 380

<212> DNA

<213> Homo sapiens

<400> 7681

agaatacaaa gaaatttaca ttattatac cgcaaaaaaa ctcatatt tataaatacc 60
agtaacatgc atagaattgg aataagatgg ttactttcta ataaaaggag acacctccaa 120
tgggcaaagc ggtaaaaaag gactttccac aaattaaacg anactagcct cagtagatcc 180
ttattaacac ttaagtgaat tcaaagccct tcctgaaact gggatttgcc tcgctaacc 240
tctctgcacc ctgagcaacg aagtgggga taattggctt caggaacttg aactcatttg 300
tcccgattc tccagtcaga cacacctgt actggtagct ctgggacagg gtcccggtgc 360
cgctcacgtc caccatctgc 380

<210> 7682

<211> 380

<212> DNA

<213> Homo sapiens

<400> 7682

aaaaagatac ttttaataac atgaaggaaa aaaattcaaa ataacatatt tatacaaata 60
catcctattg ttattccagt atttcacaga ataaagaatt tgtctatata atttccttca 120
gtagcccaca aaatatttac cactcctttc cttaattacc attgtattaa agacatctga 180
tgtcaatgac aaaaactcca gtattaatgc ttaagagcta gggtacatta ttttaagtttt 240
tcatttaatc taacatcttc aagtcattag gaacttttta aactaatctt gttcacactc 300
caggacattc ccacgccaaa aaaaaaagt cagatcaaca gccagaaaa aaaaccaaac 360

aacaaaaaaaa accacagcta

380

<210> 7683

<211> 379

<212> DNA

<213> Homo sapiens

<400> 7683

agtataatcc actttataag tttttaaaca aatatactta tgcatakana aaatctggaa 60
 aaatatatgc cagctataaa gtgggtattg ctcatgggat aaattgtggg aaactttttc 120
 cctttttgct tctctgtgtt gtgatttcct aaagacaggg cagtgggtgtc cctaaactgc 180
 tctggaactg caggacctaa cagcctcact gtgtctgtc acccaagtct gacaggtggc 240
 agggcagtgt ctgangccca ctgggatgca gaccaggaa agctgggggtg gggggcttct 300
 ggtccccatc tctgcancct catcctctcc ccagctacac agaccagat ggctactgtc 360
 ctggaccana tgaaggcag 379

<210> 7684

<211> 381

<212> DNA

<213> Homo sapiens

<400> 7684

gagttggagt tttgctctgt tgnccaggct ggaatgcagt ggcgcggtct cggtcactg 60
 caacctctgc ctcccggtt caagcattc ttctgcctc agcctccga gtagctggga 120
 ctacaggcgc gtgccaccac gcctggctaa tttttgtat tttattaga gaccgactta 180
 gccaggatgg tctcgatctc ctgaccttt gatccaccg cctcagcctc ccaaagtgt 240
 gggattacag gcgtgagcca ccgtgccag cttttcaagt ttcttaaate catgatcctt 300
 agtaaaaaca ttttacacat atcttcatac aagtatatgt atatgtgta tacgtacaca 360
 ctatagttgt atatgatta n 381

<210> 7685

<211> 378

<212> DNA

<213> Homo sapiens

<400> 7685

```

aggatgttct ctttatttct ctttggtttc ttaacacaaa agacatgcat tctataaata   60
aaaggaacta agattttctg ggaaaccata aattgggagg aattcccaca gtcacacctc  120
tgtggtcaan angatggtct tcagcccca tctggctgta atctctgatg aaatccanaa  180
aanaaggncg gtgtgttata caaaaagggtg aaacactcaa ggacagtga tgccacagtc  240
ctctgtctcan aactgggcta ggccccaagg nccactgant acaatgtcta ccctatctcc  300
ttgttacatc ctttttacia tacccttggg tgatgcttct tttcatgggg ctattggaaa  360
ggctccaaca ccaaanaa                                     378

```

<210> 7686

<211> 384

<212> DNA

<213> Homo sapiens

<400> 7686

```

gtatcaatna atttttttat tcagaacctg gatctttaag actggtataa acaaaaataa   60
aatacaaaca acttggttatt aacataatag ctgcagttat taactgcaag aaatacagta  120
aaaaggagtc atactaaatg ttaatgttct tgcaacagaa ttttccaat caccttaagg  180
tagcaaattc tggnaanaaa tgataattca tttcttatta aaaatactta aagaatttcc  240
aagattgatc agttgtgcca caaataaaac agcagtttat tcaaagaag cccttacctt  300
tctcttattt tcctaaaaga tctgccattt acaggtaact actaatttca gatcagttat  360
tcaaaccagg ggtnccttct ggta                                     384

```

<210> 7687

<211> 387

<212> DNA

<213> Homo sapiens

<400> 7687

```

gactgccatt gcttcacacc ttttaactg tcttaaaggt tctattgctc ttcaacgac 60
ttagtgtact ttgaaatata aaagtaataa ttatcattgg aacagttatt ctaaattctaa 120
aaagataact cccatagcaa tttttgttta ctcagaacat attttcactt ccaatatatg 180
taaaatttct cacaaaggaa cagaactcac agtttgaaca gaaacctcag tgtttaaadc 240
tccacattca gtaaaataaa cgctacatag taggttgtnc tgaatataaa tcacgcattt 300
aactaaatgg gatataattt ctaacttgtg ttaaaagtga agaaataatt ttttatgggtg 360
aagccttgct ccaactcagt caagtgc 387

```

<210> 7688

<211> 282

<212> DNA

<213> Homo sapiens

<400> 7688

```

cantgaacat tccagatttt attagtaacc atgcattata tatttcttta cnccttaagga 60
atagatatga aacaatcttg gagtaaaaat tagaaggnaa cttgcttcaa gtttgtccca 120
agtcaatcaa gcagaaacct gaagaacctt gttttaagat gagagtcatt tatacttggc 180
aggnattttc ttcnatgaa aaaataaagt caatgtgccca ttatcttgac acttatnaaa 240
atgtttataa aaagcattna ggccnttgat tctcacagtt gg 282

```

<210> 7689

<211> 379

<212> DNA

<213> Homo sapiens

<400> 7689

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gcantttgta aaatgtttat tanacctaaa cgggtgcctg gctcttagtt gattatctcc 60
tggatctgca aagaaaaaaaa ggaaaacaaa aggggaaggg gattctctac aaggcctagg 120
catganagga nantcacatc aagttaagta ctgggccacg tgacatatca caatcccat 180
gtggacacat tccagtaaga caacacctag gtgctgggcc cagnaacata tgactgtgtc 240
ttttataggc aaacacaggg tntaaagagg ggaggggata acaatcaaac atctgatggg 300
ccaaaanata tgtcncaatg cccctgtgg gcagggtcca cgctgganac acatatacc 360
ttggcggttg gcccatgan 379
```

<210> 7690

<211> 387

<212> DNA

<213> Homo sapiens

<400> 7690

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natacacaat atataatact gggaagattt catttcagtg tttcccaaaa cattattcct 60
gggaaagggg gtncctctcc atgactctgg ataataanaag tttgttctg attttttaag 120
tcacctcana cagacactgg aacacgttag atctaact taagtgttt gaaagggcag 180
taaaaaatcc ccaaggnaat tcaagaaatt gtaataattg ctgggaanac tgtggtttct 240
gtancccgagg gtggcttcac agttgtcana ggtcacaaat tctatgtccc tctccgacca 300
gggacctcca ggacagcttc cctggttggt tctcgantct ttcancanaa ggcagaccaa 360
cagaagaagg gttgttgacc ttctcca 387
```

<210> 7691

<211> 383

<212> DNA

<213> Homo sapiens

<400> 7691

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ggcagtcata cacttgatcat tcttgtttct tctctcatg acatgggaaa ggcaggtaaa 60
aagatctctt gaaggttgct ccgaagccca tgggantgaa tgttccggtg gacttggggc 120
tctgctgacg gangccaggc cacaagggga caacgctggc accaggccca gtcacctctg 180
taccactcgt tagtantctg gttggtggcc gccanataca ggacaaacaa caggtngccn 240
cccaggagga agctcagaac cacgacaaag ccagcatga anacaatccg tggaaaagtc 300
aggaacaggt nctgaataaa aaagaccgtg tccataacat ggnaggtgtc caaggtcatc 360
natgtaagtc tcttggtata aat 383

```

<210> 7692

<211> 379

<212> DNA

<213> Homo sapiens

<400> 7692

```

gctgctaaaa atatcttctt caggccctct tctagggtg ccatcttaat gccagacagg 60
acattggaac gatcacgatg ctgagccaca atcaaggcca acaaactctg ccctttgttt 120
cttgattctt tatcatcaac aggaaataaa aggacacctc ccaaactcag gtctttcatt 180
ttcccagcca gctcatatat ttttcttggn tcagcggatc gcttttccan anctgtaa 240
aaaccacctc tgcccagtg gccaaagtca tctacgcagt gcacaatgan agcatcctcg 300
gccccagcct gaggggtgggt gacatcacca ctaacgtact tgagggaant ancatctggg 360
tcttggtaat ccantcan 379

```

<210> 7693

<211> 418

<212> DNA

<213> Homo sapiens

<400> 7693

```

gggtgctctg tctgctgtag tcagccgagc aggggcgctc gctgtttgtc gctcactaga 60
agagagccct tgccagccct gggttcctgn tgccgcaccc gcgaaaacag atggcaccga 120
cttggcaggc cgcagggagc cctggatggc cttgccaggg tctctcctgg aancgctgct 180
gaaggacctt gatcctgca tcctnctcca ngatctgggc atggagcacc tttaacctgc 240
ttncatctc ctgatgcctg tggccaccag tgagcaaacc ctcatgaaa ctgctgctgg 300
gtgagggctg gggggaatgt ccgataagag tgggtgtcacn ctgagnagca accggtggtn 360
gccgcatcnn tggcnaactg cctcatgggc atgttcctcc aaatacttct gctcccac 418

```

<210> 7694

<211> 458

<212> DNA

<213> Homo sapiens

<400> 7694

```

aatgaaatgg aatttaatgt aactatgaca taaacacaca cagggtgggg aggacgggtg 60
accaancgca aacgtgggtg acacgtggcc ccgctctctg gaccctcagt gggaaaaagt 120
ctgaggctgg cgtctctcac caaaccacac ctcccctggg gggtaatac tgatctggct 180
gagtacagc atctcgtgac ccaggctggc cctgggaang cgccacaggc gangcctgcg 240
agtccagggg agcaggcaga cgctacagtg gccccgagc gcgccagggt ccagcctcna 300
cgtgtnaatg gcccgtgctg ggcgctgctg ggaaagaaaa caanaagggt agggctcgtc 360
ctcaccaagt gcttcctgan tgccgtanga cgtgggtggg acatggggac agtgagggtg 420
ncacaaacag caacgaatgc acaaagacaa gttccagn 458

```

<210> 7695

<211> 400

<212> DNA

<213> Homo sapiens

<400> 7695

```
gccttttgta caaagttttt atgtatatat atatgtatat atatttatgt acacagacac   60
aaggggtata aaatccagtg agaagggtc acacatgccc aggtaaggga tgggagtagc  120
tataattgcc agggttgang ccacagtana ggcacacagg aagtggtaaa ntancagcct  180
ccctccatcc tcctacctcg ggccaaaggg aggaaatggg aggaaggaca attntacaaa  240
ggaanatgga aaatactgga aaggcatact ccacctttta ctaaattcct gaaagccccct  300
aatgcctca caggacanat cactctcaca cctcctggca ggacanatca ctctgangcc  360
tcctggcagg ataaatcact tccatgcctc ctancaanat                               400
```

<210> 7696

<211> 601

<212> DNA

<213> Homo sapiens

<400> 7696

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gtattggttt tatttaaat ttacagaaac ctgatcagag ttaagtatgt aattataant   60
ccagtaacaa tttctacaaa aatgcacata caatgccaga actccttaa agcaactaat  120
atcatatttg tgttttgcat aaaacatgca ttaatatggt ggccaaaatc agtctctaca  180
aaaagagaca gtccantaca gtcaataaga aaactanttg tgaacaacag gtaaaaaaag  240
aggtttccag ttaatgtgaa anaaggaata gtacctttca taaaacaagc ctttcagcgc  300
tgagttaact gatcggtact attgtgctgc acgtaatgta acacatcacc tccaagactt  360
ggtcctgatt ggtcatagga agtaaggac tttctggtan ttacatcaga tatttgagaa  420
gattaaaagt tttccggaca tgatgggtata ctaatagtgc aaccttgcaa aaagggttcg  480
aaacattgtc agacttgga aantcccan cttgataaac aacccccaaa gacaccccga  540
gcctttgaac ggagcctctg cacaaggcca ctcaaggntc accatttntt ctgtgggccc  600
n                                                                           601
```

<210> 7697

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7697

```

attaataata cttatttttaa tctgttcct ttagtatgtc ttatacagt tccccctcgtg   60
tatatacact gatataacta caatttaaaa gccactaatt atctgttttt tactttgtag  120
taacaagata tagacatttg aatgccaatg tcttattctg gagagacact ggagctgaag  180
ttcaacaatg atcacactta ttacctggca ataaaaacac aaccatcttt ccagtcaggt  240
caaaatatcc tactttttgc ctttctacca aatcccaaac attcacagtt tttcaaggac  300
cactaataaa atacaggaag cttttaaga cagtaagaga acacctagt taagttaggt  360
gaattaaaga tggcaaagga gattacatcc tcaacactga cagcttccaa gacttagaaa  420
agagattggt ccttgcttct aaaattgttc tattttccnc tgtagggaaa atgaaagttt  480
tttcttacia atattgaata atccaagtac ttacgcnaaa ttaatcctgc nccccatgan  540
atgaacacnc catttaaatg atctttacna tccc                                574

```

<210> 7698

<211> 490

<212> DNA

<213> Homo sapiens

<400> 7698

```

cccaggagat aaaaaaattt attttaatgc acaactatag cattcatatg cctcagccca   60
gggcaggggt tgggagttag gtaanaaggg atgcatttag ttgcccgtg ccccaaanag  120
cgggtaaata gctaagccac tcttcaactc cagcacagac cttcagaagc cccagatatc  180
aggatgtaat ggtagggctc actgctctaa aacagctcaa acaacctgct cccaggaang  240
caanccttct gctccttggt cccctgccta ccattaggac acaatgttct tcgtctggcc  300
anacatctgt tgaaaggctg gatacaggac aacgtaccca tcttccatc tatatcaact  360
atcctaggtc tctgataccc cattttggag cactgttgaa gtcantctct ggaggtagtg  420
ctgacgcaaa aggggcaact ganaataaan ctcaaanccc tctgggaacg tngaaattgg  480

```

gaagcttata

490

<210> 7699

<211> 358

<212> DNA

<213> Homo sapiens

<400> 7699

aaggcaagaa caacagtatt tattcagcaa gtacaanacc agtttgagag ctgcattcag 60
tgcaaccaga gaccctttcg ttccaaccag gagccagtgg ggctggtgac aaanctggct 120
ggagctctgc acggggcaag gagtgcattg tgggggctga ccgctcattt ggctccttga 180
atctctttct gatttctatc tanaanctcc cgggcaaggg tagggcctat gtagggactg 240
ggggtggatn aagcgcattg cctacagtgg accactccaa nacgtggttc cctggtgcca 300
cgggtcacac atctctcagg cggaggcact cananaangt aaagctttcc tancccaa 358

<210> 7700

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7700

gagatggatc ttgttctgtt gccaggctgg ggtgcagtgg catgatctca gctcactgca 60
acctctgcct cctgggttca agcagttctc ctgcctcagc ctcccagta cctgggacta 120
caggcacacg ccaccatgcc tggctaattt ttgtattttt agtagagatg ggatttcacc 180
atgttggcca ggatggtctc catctcttga cctcgtgac cactgcctc agtctcccaa 240
agtgccggga ttacaggcat gagccactgc gccagccaa aatcacccaa ttttaaata 300
ctgattcaaa aacaaaaatt ccacgatgta ngcctaacag aacttgatag gtanaaattg 360
ggggaggcca ccagtttgtg acccctcttg taaatgagga tgatacttac ttggcacaaa 420
acatctgtct ttgtggaact aactanatgg tcctaggtac ataaacttaa ttttcatatc 480

ttgccaaaat ngaagctttt ctgtgtatcc aaatatattg ttcaaaattc tcccaccagg 540
ttcaggaatt ccattaanat ggttgtnac ccnnaaaaaa naatc 585

<210> 7701

<211> 525

<212> DNA

<213> Homo sapiens

<400> 7701

agagatggaa cttgctatgt nggccacgat ggattcaaaa tcctgggctc aaganatcct 60
cctgcctcag cctcctgagc anntgggact acaggtgtgc accgccacac tccacagctg 120
atgttttaaat aaagtgccac tgagtatcan actgatcaaa ctgaaaacat cccagaactt 180
canaccaggt taagggggcc aatgagaaga tcatgaaaag tgacatcaga tgaaagctga 240
gatctgtgaa agtttcaaata cagtttttcc nagtaagtcc acagaccatt tgataggcta 300
agcccagttc tttacacaat gtnncagcca tcatgtctga gtactaattg ttctcttccc 360
actggttttt gtgaaatttt ctgttctgtt accttttaaa gattctacca agtttttgac 420
tgtttcaatt gcaaacttat tgcttttctn cttggtnaan gactttctgt ttggagcaaa 480
tggtacaata aggataccac ccccnngcc gattacttga aatgg 525

<210> 7702

<211> 306

<212> DNA

<213> Homo sapiens

<400> 7702

agaaaatcaa ttgctttaat tgcattgcag cagggaacct cagcaccatg tnggggaaga 60
agaaatggga agtcttggtt tcanaatgct tttggctggc cagaaggtgg ccaaacaggg 120
caagggggct ccctctgctt gggcattgtc caccctggt cantgagang ggggcancan 180
gggtgctccc cacggcantic ctgctgcggc cttccctcct ggcctattcc tggggcagga 240

acaaactcca gccttcctcc acatggctga ngtnatcanc acccctaccc cangggcatc 300
ttcnca 306

<210> 7703

<211> 541

<212> DNA

<213> Homo sapiens

<400> 7703

cccaggcttt ctggccacct gttacaaaag caatggaatg ggagcaaccc cgcaaaactg 60
gtcaggaggat attgccacta anacttaagg aacagtcana gcctatgcct gtcgtatctg 120
atttggggag gcaggagtag ggctatgatt tttaaaaaag ttaggctagg cantgtcact 180
tacaccctt ccagctgtgg tacttcatga tctctgaac tttaaaactcg agaaagcaat 240
atatcacctg gaaccacgca gcatcctgaa cccctctct gggcaaggct tggaggcatg 300
gcgggtccct tcaagcccag ggtggccttg acattcccg gatccanttg tcagcccttc 360
ttttctcgtt gcacctcagg tccatgcggg gttcagacct agaactcaaa cttgngtagg 420
ccaatgaatt tacctgttcc aagaatccaa aacagggtgtt gaaanataaa aatctcctta 480
acccaatccc ttntnttigna agggaacaaa aatccttgga actttggcca ggggtcnccc 540
c 541

<210> 7704

<211> 332

<212> DNA

<213> Homo sapiens

<400> 7704

gcactctctt cctgtacagt atttattgtt cctggcactt tatttaaaaa tntttgacct 60
tcaactgantg tctgtgtgtc tgtcctgcat ccctgggttg gtgtcttgaa atgtggaggg 120
aatgcnaaga actgaggtca ggccaacccg ttnaaaaacc ttttccanan tctgaaaaca 180

aagggttaaaa cctctcccta ggtctgaagg cggaacagg cgggttcca aaaaactatt 240
ccaagggcgg agggcggang cagggaccn ctctgggtct naatgctggg gcaaaactga 300
ngacaacccc ccctaccctt aaaaacntct ga 332

<210> 7705

<211> 426

<212> DNA

<213> Homo sapiens

<400> 7705

caaatgcaaa tagtctttat tatgagaaag cagtgttatt taggaaagtc acatgctggg 60
ttctttctaa taaaatgaca aagcaggttt cttaaataat ttacaaaggg canaaattgc 120
tcttgaacag ggctaccctt cctggcacat ccacagtgtc ctgcactgag catataaata 180
ggtacccttg agcccagggt cgtaagcctg gaaatatctc ctatgccttc ctccgagtcc 240
ctgggtangga aaggagggat nanagtgggg ccctcaaaag ccttggcacc anaaacacag 300
tggttgagtg actctgcgga tgactcccca aaaaccaggc acccggtac agagctaaga 360
nctctcaaat atctgatgtc agcacttcat gtnttanatg angcaatan aagctcaagg 420
tcaagt 426

<210> 7706

<211> 509

<212> DNA

<213> Homo sapiens

<400> 7706

ctagtttgtg tagtaatttt actgcataag gaaattacag agattgcata aatcattagg 60
tcaacagcat acagagaaga acaaaacaaa acattgtttg ggatcaaata aaaaacagca 120
ggaacaactc aattcttaaa aataccacga attccccgaa tgtggctcca tttgatagaa 180
aattttgcat tttctggata atgtctgtag ttacattaag caaatggaa aacggccttc 240

agataaacac actaaaaagc agcttacaca gatgtgttgc cctcttcacc ttggatgtta 300
 caaaaataaa gatgtgaggc tgcctgctct tgcctaaagc atggcttgaa ctttcaattg 360
 atagtaaccg cttatgaaaa atattacatt acataatctc ctgtgtattg aaattgcaca 420
 agtcagagca tccnaaaact gcaagagtca atttcttcct atggggaaaa gcatatanat 480
 attctatgtt taancctccat tccncnttc 509

<210> 7707

<211> 594

<212> DNA

<213> Homo sapiens

<400> 7707

gaagattaat catttatttg ggatctagat ccatatatct gaaaactgaa gtataaagtt 60
 tctcatttcc atttaccttg tcaacaaaca tatcccaaac atttcagcat ctgtaaaagg 120
 tgatctatth agcatctgta ataagtgatt tatagttata tatgctaaat aaaggttgac 180
 acagctggat cctaaaagct cagatthttat aaatthtaaaa tagattaagt atttatgcc 240
 aaaaacaaga actggatcta ggatthttatt ttaaatatg gaagtctctg gggaaaaaaa 300
 atagcaatgg aatgacaata gatgtcagat atttctctga gaagtatata gtttctcaat 360
 tttcgctagg tagtgcattc caactgaatt aaaactaaag catatttaca gtgcattttt 420
 tctcactaaa atttccaat tctaaaatgg tctggccagg cngcattggc tcagcctgtt 480
 atcccaccac ttggggaagg ccaaggcagg cggatcccaa ggtcaggana ttgaanacaa 540
 nccgggctna catggtgaaa accccttcc tcttccaaaa tttaaaaaaa attt 594

<210> 7708

<211> 611

<212> DNA

<213> Homo sapiens

<400> 7708

aacattactt tcttagattt tatttttttc aaaacattat ggcttaagga aaatagttta 60
 cttacttggt gacttgccta ttagtagct attaaaaaa cagggttttt gtgagtttac 120
 acctgtttg tctacttgat gggactgagt ancttccttc aactganata gaatttgtct 180
 accactgcgc tgggaanang cattcacttc aaatatctta aatccaagct cctgggcaca 240
 agcatacact gcagcagttt ttcccactcc tgttggccct gttataaggg acagtattgc 300
 aaagacgact ctcttcttca tcatctgaac tgccttttaa gtctatgcca cccgagaaat 360
 cttcatgttt ctcatctctt ttcccttca gattctgcct ttcttccaat tcagctcttc 420
 ttttcagtc tttcaacca ctatgtaact tttttatagc taactcattt cctataaatt 480
 cactggcaag tctgaagttg aatacttttc tgntccnaag catgtcttca gttcccaaaa 540
 tcttgaaaa actaccttat cccaaaaaaa ttgtttcctt ttgctaantt ctccgantcc 600
 caatnggtct c 611

<210> 7709

<211> 297

<212> DNA

<213> Homo sapiens

<400> 7709

acagtctctg attttaatga gtcaatctca aggcaaagct ataacctttt ccatgtgaac 60
 ttaaaacgga aatcctacgt gtttggctca gctaccatag acatgtcttg ccccagagtt 120
 ccagtgtatt ttacaccttt agtttcttgg ctctctccg cctctacacc agcctcatat 180
 ccacacggga tgctctctgc tgagtattgt cttgagtttag ttctccctct catgttcttg 240
 ctgatgctac tcntggtcac agtatcacct gacgggggaan gaatntnctn tgaaagt 297

<210> 7710

<211> 475

<212> DNA

<213> Homo sapiens

<400> 7710

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gaaggtgatt agttttcatt taataaaatt aataacacat tacatgtaga tgaagatata 60
acaaaacccat ncgaaagctt gtcagagata ttcaactaga aaactaaaac agtagccact 120
agaaaaaaga catagtggaa aaatttttga acggatatgc tttttgttga ataattacag 180
taattactac caatatattc agaccaacaa agattagaaa gaacatgcaa aatgctgaga 240
aaatttctcc tacaattaaa acaaatgtgt ttttatgaga gagaaaaaaa taagtcnagc 300
tcctaaaatg aaaattacaa aacatnggga ttaacaattt attaaaaatt accccttgat 360
ttttttgagg ccaaaaaaag tngttttttt aaaacaaggg catgaaaaag acttcagatt 420
aagactcata ctctgttcta aatgaaangt antaaaacta cttctngtan aaaat 475
```

<210> 7711

<211> 303

<212> DNA

<213> Homo sapiens

<400> 7711

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cactggaaag cttanaatga agctgctctt gcctgttctt cctgagaacc anagcagcag 60
tggtccaggg cacaaagcat aatgatctct catgaggatt cctatctgaa cacatcagaa 120
gtcctatgaa cataaatagg tctgttttag aatataaatg gtagtgactt cctgcgctcc 180
tgaggcgggg caaaataatc cataaacaca taatccttct gggcaataat ntttctggac 240
tcnccagcaa anggctctan gaacaaaagt gggggtnaaa tccgggaaaa aaaaagttct 300
aaa 303
```

<210> 7712

<211> 477

<212> DNA

<213> Homo sapiens

<400> 7712

acagtgttag agaattttgt tttattgttt tgggtggcatg ggcataattg gagaaaccat 60
 tgggggtattc actagtaacc tacattgtta gtttccttgg ttccagcagg taatacactg 120
 ggttccgtca ccctgganat ggctacgggg aggctgagtg acttcccaaa gtaataaaga 180
 gtttggaatc agaattccag gtctgactcc cagcanactg ttctatttcc ttacacacct 240
 gcactttcat caatcttctc cagctccaat ttcttgtgcc cttcaacag catctggcac 300
 agganaatca taggctctcg gaactcggcc tgacagatgg cgcagatgtc accagcttct 360
 gtgcactgct gcccggtggc tcggactcca tanttctgaa aggtacanag aagcttcagg 420
 gctttcctaa ctccgccac acntccacan atgtctaaag gacttgcanag agctgtt 477

<210> 7713

<211> 618

<212> DNA

<213> Homo sapiens

<400> 7713

ataattaggt tttttaattg cctgaatata actgaccatt tccacatgcc cttggacett 60
 cgacatgcat cgcgtcatga gattcaacgt atttggagct gtgacttttc tgcagcatgc 120
 agtatcataa atattggaga actagagact gaattatcgc ttgtgtaaatt cttatcatgt 180
 tccatagtaa tggctccttga ataatagcct cagcatacat aatccatctg tatggtttca 240
 tccaagatgt atgttttgat atctagtcac ttggcaggcc tcaagagacc tgattcacat 300
 acattgctat gatttctctt tagtatggaa tctctgatgt tgattaatgc tagaacttag 360
 catgaanagt ttgccatact cagtttgtaa gaactctctc atgaatgaat tctctcatgc 420
 tgtgcaaggt gtgaattatt actaaagatc ttaccacaca catttcatct gtacggttct 480
 ctccagtatg gattctgtga tgattgccag gtttgaattt cnaatgaaat ccttacacat 540
 tcntgaaatc tgttccggtt ctcccanta tgaatccctc ctgttttttt aaggtttaact 600
 tgnnggtnga aaaacttg 618

<210> 7714

<211> 513

<212> DNA

<213> Homo sapiens

<400> 7714

```

gtaacaaaca gtaccaatTT attttggccg tgggtttttg ctttttttcc agttgatgac   60
tttgtgaaca ttcccaggta ttggagcctc tgtggcctta aatgtggctc agtggaggga  120
gaccancat agccaggcca gtatggagca cctcacgcac agctctcana agctgcaggc  180
ggacgaacat ttgaccaaag angtgtggtc gaggctcccc cangatgtgt acccggttgt  240
agtangaact gaaatccatg ctgagctgta ccaggaactt gcatatctag agacagagac  300
tgagtcactg gcccatctct ttgctcttgt gccccaggcc anaataaaga atanagtgt  360
naatgtcctg gttgtctatg cctcaccatc tctgtgcgta cagcaatgtg gaccccgggg  420
ctgtgcantc cancaactgt gtccggctca ncanatccgg aaaggggaag atactgttga  480
aaaacaacac cactcccccc tnttggggaa aaa                               513

```

<210> 7715

<211> 223

<212> DNA

<213> Homo sapiens

<400> 7715

```

ggcaggaaca gtggttttatc aaccaggcag gcctccccag cccggccact gctccccaag   60
gggctcgggc tgtgtgggct ggccttggca aaaggtggac aatcctctag gtccaaggac  120
atgggggtca caaaagtggg ggccttgggc ccacacattc aaanaaaatt cccaaaantt  180
tccagtggct ntccaagca ggtatcaggt tcggcccaca cct                               223

```

<210> 7716

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7716

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gcagatggga cataatitaat aaccaagggt ctaagcaaag ttctgaaaag aaaacttttt 60
gtagtaaata tgctagcata nacaagttcc ttgtgttttc caacagggtt gcttcaaaat 120
caatccttac agcttcaana acaggagaaa ctcttaacaa agaaagggtca gcaaatttat 180
taccacaaat tctaagatat tgctcttctc ttacctgcct agaggcagcg ggatggacta 240
catgacctcc tggagtccca gccagttctg ggagtctgtt aagtccggga tgtgtgggag 300
ctttttaagg agtgatcatt ggctctgagg acacttcaac tagttggcct tctatcttga 360
ggtatataaa ctgtgaaaaa gggtttctat tctctctgaa agcacatgtc tgtgttgaac 420
atttcagtaa atttatittg aactcaggat ttcattgtcaa tttttacaca cttgattttc 480
caaatcacat ccaactcccc accccaaacc acatacatcc aaatcaactc ctgttaccct 540
aaaaaatcac tgtccatgtt ccngaaaatc cctgttt 577
```

<210> 7717

<211> 515

<212> DNA

<213> Homo sapiens

<400> 7717

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atgaaatttc attttattct gataaagact aatatatgct tgataaccta gtgataatcc 60
ataagtttgg tatttcacaa catttttttag aaagcacata agattaacat tcaaataagg 120
nattatagaa agttttataa agaatgaagt gtttcctata tttcttttaa aaaaccttgg 180
ttcatcttga aagatcgatg aattttttta atatcagaag aaaagggaaa taaaattttc 240
cccccaaac acataagaac cacttactgg cacttgtatt ttaagtacct gggaaaaaaa 300
cggaacagat ttttaaaggc aataacgact tgtaagacgg cttgtttcat ttgatttggc 360
acgaagtaaa gtaagagtaa atatgccatg ggaagacata atcaagtttt tcttccatct 420
ctcatatttc cccacttcta ccagaccaca cagtacatca gcaaccatcc tttanattcc 480
aatttttaaa tggntgctcc nacaacncaa ttana 515
```

<210> 7718

<211> 521

<212> DNA

<213> Homo sapiens

<400> 7718

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aactgggtga agttagactt ttataagcaa ttatcttctg tttaacagta ttcacattaa 60
attagttaca acattttaga atgttttaac acgattttacg caatcagtca agtggctaca 120
tttactagtt tattgaatat gaggtttatc catttagcaa tgtaaggaaa acttttagttc 180
tgtttctcag ttatcaggag tgaacataaa actattctaa accacaatta gtttaccagc 240
atagtacaaa ataaaatgac agcgaaataa agcaattaaa gtaacttatt tttactcata 300
aggttaccat aataataaaa attcctttta ttttcaaagc actctcatg aaaagtagtt 360
ggggtaaaat tactatttgt tcaaagtaga ataaaaggga aggatgctct aattaaacat 420
tttattaaaa ttaaacnctc tatttgaaag gtagaaattt aatctggaaa cctanatana 480
tttccaattc cgataaaatg ggtgacanc c ataacnggta t 521
```

<210> 7719

<211> 260

<212> DNA

<213> Homo sapiens

<400> 7719

```
acaaatcaaa aggctttatt ccttatataa acccacactt aaaaaaaata aatagttaat 60
aaattatagg caaaccagtt ggtctcagcc acgcctccca ctgaggcca gggcagccgc 120
tgcagcagca gaagagcggg aagtgtacca cagcttggct caagggcgtg gtctggactg 180
gggacnaang gacagaagaa gaagcaaggt ctgggtgaag gcaaggatgg gggctaaaag 240
tgggttcctg aagcntgcca 260
```

<210> 7720

<211> 527

<212> DNA

<213> Homo sapiens

<400> 7720

```
aaggaaaagc tacaaacctc anggttggtt tatttaaacc aaataatctg agcaagacat 60
atatacatta aaaacaaatg aacacattaa aatttcaacta ttttacaatc taaattctag 120
caacatatac aaatactgag tgactacagt acatgccgag gtaanataag tacattctgg 180
ganaatatca ctgacgctca aaccattttt atttccaata tgtatttcaa tacatgtttg 240
tttccacttt tcccagtgcc acacacacac acacaaaaac aaaacaaaac aaaaaaaaac 300
agtcncaagt tggattacat tanaattggt gccacagttg actttaaaag cattttaata 360
accaccnac tcttaaattt tgcagtttag ggacttcnag ttcagaacca aaaagcagan 420
aacgttcattg tgacatgatg tttctatana cctcttgctc tctaaggatga caatgcaaaa 480
ccaggggggaa anggnittaa actttgtccc tccacancctt tgttggc 527
```

<210> 7721

<211> 500

<212> DNA

<213> Homo sapiens

<400> 7721

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aaaagtttaa gtcagcattt tataaaaacg agaaacaaaa taattgcttt cacaatgtag 60
tacttgaaac taaagtctc cagctatcaa cagatgtgac tccagcatca agggcctagc 120
aggaaaattc tgaatgggtt acaacagtgc acataaattg caggtggctg gggccgtgtg 180
tctatttgat gcttccana atgtgtgctg ctagtcacca tttccaccat tcacatattt 240
aacattttta ttanactttt atttagcctc atcataagaa tataaggag atcatanatt 300
tgatgtatga aatttttaaa ttcacactaa aatacattac gattaaaatg aattatcttc 360
naccaccgt tttgctatct tttgtgagt aatctgtgcc agtccttggtg aaaaatcttt 420
attttaanaa aaaaatttag tttacaaaaa aatttaacaa gtttcnctt aacaaaattc 480
```


ccccggnang gaatcccngt

500

<210> 7722

<211> 474

<212> DNA

<213> Homo sapiens

<400> 7722

```

cccaanaaaa tcattttcta gtctgctccc ttcttcatct gaggtttgtc cttctaactc   60
cttgaaagta tcttcacaaa catctccagt ctctgctgcc ccangaacca ccccaaanag  120
tccccctgat gtccgttag atgactctga tccittaaaa aattcctgct tnggagtcaa  180
ctctgaaccc ttcacatnt tctcacccaa ggaggccatg ctatggtgat tttctggcat  240
catgttcac tgcagggtc tctgactgag tgtgagactt tncatttct tctgagtgt  300
gtctacanat aggtcctcat atgccacagt atccgaaatc ccactgggga ggtggtgtgt  360
ccctgggggtc ataaggang ctccangtgg gctccanggg ctgagcccca ctgaaagggg  420
ttaggttgga agaaatccct ttgtgtacc canantgtt gtctccccga aatg         474

```

<210> 7723

<211> 526

<212> DNA

<213> Homo sapiens

<400> 7723

```

attaaccatg ttctggtatc agaatggtgt tccttctcca tcagaggctg ggaaacgtat   60
tataattagt ttttctccca cataccttca ccaagagcag tgaanaataa ctgaaggctg  120
gaccatgcat ccttaaaagt attgcatgag catctccacc tcagtatgga anagggatgg  180
acaacccctc attcatacct ctgagttcct gatggcatta gtcatatagg taagtcatct  240
aataatcttt cttagactc tgcaatggaa aaactggttg tataaagtct tctctgccct  300
ctccatttgt atcagcaatg gggaatgctg caaaacatca tcttgctcat gtgatggtga  360

```

tggcaaanat atcacaagga gttggtaata anatttaatt ttccagtagc ctgcatgaat 420
 tgtccccaca taaaactgta cagtttagtga ctgaattgtt tacttaantt cccagttttt 480
 tacntttgtg gngantgaaa tttaaagggtt aatttccttta acantt 526

<210> 7724

<211> 491

<212> DNA

<213> Homo sapiens

<400> 7724

ggtctgatgg cacatattta ttgttctgtg gtctaatac agtgtttcta aatgtaaaaa 60
 gtgcatatgt tgggtgtagct agtcccgcga cattgagctc ctctgcatga agacactggg 120
 ctctgcatc cagctgtttt tattgcaaac tagctccttt ctccacact gggaacttta 180
 gtccacgagg ctgtcaccac cctggtagca ctgggccagg cttttagtagct cctgcagcag 240
 ctctgctacg tcactgtgct ccactccanc atccatgaaa ctgggccagc gccgcaagtc 300
 naatttggtg aggtctcttg ccaaagcttc cannggtctg gtgcaaggac aaaaaagaac 360
 acatgcccc aacactggga tgctctccac tgctgctccc ttgggggaan caccagaaac 420
 ataccngtg gactgcaacn ttgaaaaaaaa gttgggggtt angaagaacc nccctgccag 480
 ggaattctcc a 491

<210> 7725

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7725

ggaaaaatta ctttatgaag ccttaagcac taagaataat taattaaact gtaatccagg 60
 attagatata atttaataat agttcaattc caaaataaaa gttattgtag gtaagaccat 120
 gaaatttcct aacacttgat tttaatacat tgcgctaatt ttctaaaaca actcagagga 180

acccatatTT acagtaggca gaatatTTat gaaaaaaatc tggcatcagg tatatTTata 240
 tatgtatgtg tgtgtatacg tatgtgtgtg tatatatata tgtgtgtgtg tgtgtatccc 300
 gagattatat gaactaagaa acaagttgtg tatcttaaca gcagtactan agcgcagagt 360
 ttcagacttg ggatttataa atgctttcaa cgtgtgggtg ttgggaaaag gagaagactc 420
 catctgattt tccaaaacct gaaatTTttc ctcaggactg aaatccaaat ccgtaactgc 480
 cncanaaggg aaaaagggaa acctttcccc cnttattggt cccnccgcgg tccgaaaagt 540
 ccagtttccc ng 552

<210> 7726

<211> 599

<212> DNA

<213> Homo sapiens

<400> 7726

gctcttgttt acattttatt atcattatta gtaataaacc aataaaaact gaataacaaa 60
 ggaaaaagct caagataaat aatttcttcc ttgtgaattc aaacacatgc acacacacac 120
 atcctcctct gtgtgtgtta ctctcctc acattctgtc ctacgttaca aatagttaca 180
 caaaagtcta caaaacgcga gtagcagacc ccagctgtgt taagctcagg ctgattctca 240
 gtctagatca ccagcttctc cagcctaagt gtacttgtgg tttcatcctc ttcatttgac 300
 ccaaaatata ctgggaggtc cagcatcctc tgctcagcct cagtgaggcc aaacgacgta 360
 ttgtcatana aagcaaactc anggtgagtg gggaagcttt gacacttgtc ttttctacac 420
 tgagaaaggg ctcagaaaac tgaccctctg gtagttatct ttgggggatg tggganaaaa 480
 ctacttcctt gaaaatacnc tgttaatggg ggggaaggnc cccaagaact ctgttggggn 540
 ccgttctctc attcccgcca ctaatcctg cctgggggan tccccaaggt ntggtttcn 599

<210> 7727

<211> 497

<212> DNA

<213> Homo sapiens

<400> 7727

gtagaggcaa ggttttgcca tattgcccag gttggtctca aactcctagg ctcaagtgat 60
 cctcctgctt cagcctccca aagtgcgggg attacagggtg tgagccattg tgcctgggtct 120
 taaaatgtta aacatggagt tttaacccaa caattctact cttttatata ccaganagct 180
 gaaaacacat atccactcta aagctcatgt atgaatgtat gtngcancat tattcatagt 240
 agccaaaaag tggaaataac ccnatntcc atcagttgat gaagggtgna tatccataaa 300
 atggaatgtt atttggccat aatacatgct atatatgaag tacttaacgt ggataaacct 360
 tgaaaacatt aagtgaaga agctcatcac aaaacttcac gtnatatgat tcatccatt 420
 tatagaaaat gcccanaaca gacaacctat aaaaacaaaa aatgggtcnt tngccaaaat 480
 aangggggaa ggttggtt 497

<210> 7728

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7728

aggaagattt cttctttatt cctatttgat ttaaaagaaa aagatttgcc aagggatggg 60
 tagggttaaa ttaaaaacat tttaanaaac atttctttat atggagcata cttactgttt 120
 ttgctttgag tgcattctga tgaaatatag attccaaatt ccccttgat ctcacccttc 180
 tgtctagtgc tttgccctct atttggggca gtaattctat acatatactg taaatgtctg 240
 tcctgatgat caggatgcc aagctctgaa tccaactgct gccaccaana naacggctcc 300
 ttttggagc cattacacac agatcatcac tcaaatcagt agtttctctt tagaaaacta 360
 ncaatttntt ggtagtctgt caattaagaa aagaaaatga aattcagtta cttantaagg 420
 gaaaactgga taaacaggag gctggtccaa acgganattt ntatttagac attccccctt 480
 tncctggcct catcctttcc acagctattt cccttccttt aacacaccaa gttctttttt 540
 tttccaata caaaacntaa atncctgang gggg 574

<210> 7729

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7729

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ggaattttta atttatttat catgtttgta agttacagac atttatgttt ttcagcaaca 60
gtttataata gttacatctc atacttcaac tattagaaca gagagaacat taaagtacaa 120
agaaagactt caaaaatgag gttactgtga tgtatcataa aaggagttaa aattcaaaat 180
atcaaagacc tcncctatcg gactaaacat aaatcttaaa acctcctatg gtcctctgag 240
cctaaaatta caaaacttag caactgctta aaccaaggaa ttaacggttc tgtgttttca 300
aggttaagaaa acaaaaaatg ctttggtaaa ctacctttaa tactagttaa aatgtttctg 360
ccttgtttgt atctctcttg aaagactgta tataagtaca ggcacagcat ntatttgaga 420
aaacatctca caaatttcat ttactatang tttctcaata atctttacat ttaatcaatg 480
aaaaaaattg atccatccnc ttgaatttta ngttaaaaaa attnaaaagt ntccaaggg 540
ac 542

```

<210> 7730

<211> 523

<212> DNA

<213> Homo sapiens

<400> 7730

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cataanagta ctttacttgt ggatttcttg gctaaatgta ttaacatttg tttctnctca 60
ctaaaagtcc acattttcaa caaagctgta tgtgtaagat tgatagtttc attccacttg 120
ttcttttcgt aactgggtgta agccaccagg ttctccgtgt actgcaagat cnactttaca 180
aactttaggt actgctgata ctcatgcgca ttcttccac aaacagcatg aatgttgacc 240
aactccagcg caatgagtaa cagtatcagg ctgagcacag gggacagtag tctgatactg 300
ggcctcactc tccttctgca cctgcaaggc tgcggctttc tgggagccag ggctagcggc 360

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gtatcgctgg ttggtgtctc agtaggaana cgatccaagt cctttaacac acaacaattc 420
tcaggcatat ggtgatacag ctcatccgtc cattttggta atcaaanaan tggcaggctt 480
ttgnttccaa aattatntnc tatccttaaa gggttgccaa att 523

<210> 7731

<211> 317

<212> DNA

<213> Homo sapiens

<400> 7731

ctgttgccaa aaataacctgt ccttacaaaa ccacaattat aaaggtaaaa gtgaattatt 60
agcaccaggt gcagaggcat ttccaaacca gaaacaccan atcttcaccc tggagtggac 120
agaggggagg atgccacctt tgataggact ctgcanagcc cagcctggaa ctgggaaaat 180
tctggctggg gaagccacag gcatcagctg aggggtcatg tccggacccc aganaggccc 240
aganagaggc tgagaanagg agcaccgccg gagtggggga gcagggganc ctgtcggggg 300
anctaaggag gggctca 317

<210> 7732

<211> 515

<212> DNA

<213> Homo sapiens

<400> 7732

aaatctgtag aattctagca aattggttaa aagtcaagtt catgggagat gaangctcag 60
tggatgacac atccagcgat gctggtggga ttcagacgct ttcgcttttc aactcactta 120
gcagcaaagg ggatcagatg atttctgtta acgtgtgtat aaaggatgaac tataattact 180
ttgtgtttac ttctgtgttt tcattacttt cacttactcc cagatatac tggaaccatg 240
caaatactgc ttattcccta atgtggtttt gaaagactgg gaggctcaga agcaagtatt 300
atgtctgtcc gtacatgtcg tttaaaaaat tattttttta agccagtcaa attgagtagt 360

gggcaccaag cccagcctgc ttctttactt tnncigtgtt aatactatat attggattcc 420
 taaatgttat atgttcacaa aactttttaa aaatgaggaa atgtttaaan aanttttgag 480
 gatgaatgan taagagcccn cccnggtcct tgcca 515

<210> 7733

<211> 539

<212> DNA

<213> Homo sapiens

<400> 7733

atcatcctgc ccatgtcagt atacactctc tttattatgg gaatgaaacc aaataataag 60
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 gagtgatcta actaacttaa gctgaccctg cgactggctg aggataatcc cttctgtcca 180
 ctgcaccgtg caatgccaca ggtcatgana tggtcagttc ctcttgctct gtgtcgtctg 240
 aagcaagtgc aggccctact tctggttccg cccttcttcc ttgggcttag atttgctggg 300
 ttagtnttt gctactattg tcaagactgt actgtccctt taaggtacca catgccacca 360
 tagcttacac agcagtcctt tagtacttta tccacctcct gtttactgag atcttctcca 420
 cactcttgag tcaaccgaga ctggatcatg tttcggcgta cccggttaatt ttgggaaaaa 480
 atttcaagca aaacctgten atgctgatac tcatntntcc aaantcccca aaaggnaaa 539

<210> 7734

<211> 335

<212> DNA

<213> Homo sapiens

<400> 7734

agatgaaagt tattttattgg tgtgactntt ttccttttagt gagcttcctt tacacagcat 60
 ggtgtaaata gcatcagatt gaatgaaaag ttigttaaata gcaaccataa ataattataa 120
 taaatataca tcaagtaact ttacagcaca catttttttag ggccaagggt tggatctgtc 180

tggacctcaa tgtgctctcg gagaggcagc cacgttagca gcagatacct tacagcttgt 240
catctactca nntgatggcc aacaaaagct tctgaactcc tcctggggag gtagctgaca 300
attcctttcc agggatgagg actanaaana accaa 335

<210> 7735

<211> 422

<212> DNA

<213> Homo sapiens

<400> 7735

aacttattaa aaagatttta tttagcactt ggttctgttg gctgggaaat tcaggatcag 60
gcagctgtat ctggtgggtt ctcactgactg cctcatgctg catcaaaaca tcgtagnaga 120
aacagaaggg gaccgagttt gtgcaaaca aaagcgcaaa atagaagang cagcattgtt 180
ttataacaac tcactctctt gggaactaac cattcccagg agaaccant ctcagtgtca 240
aganaaagat gttaatccat cttagcaacc taattacctc ttaaaanttc catctccaac 300
actattacat ttggcaattg aactacaaca tgagttttgg aggggccaaa caacatgcaa 360
accatancan cangttttaa ggtaaaaaga tggganaaaa ntcccagaaa gatttcctgg 420
aa 422

<210> 7736

<211> 278

<212> DNA

<213> Homo sapiens

<400> 7736

aagtgatcaa tgctggcttt atttcttcat aagcagtaat ttgggtcttt ttcattcaac 60
acaacgcagc attttcataa taaattcaca aaagacaata caaggaaaca cctactgaat 120
agaactctgt cgagcaattc atgttttaa gttggactct ataccaaact ggcattatgg 180
tattatagge atttgatttt tgttttctta ttttcagttt gtcantttct ttactaccat 240

tatTTTTTtc tagccgggaa anaacgtttt atccnnaa

278

<210> 7737

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7737

gttggaactt gtccagatct ttaggctttt acaatataga cttctgtaat atggttacca	60
agagccagaa ttctaagata tagccaagat tctaagattt aaccagtatt taaaatacat	120
gcatttaaaa gaaatccaga acaaacagca tatgaatggt ctggcatcaa aacagggcca	180
ctactttaca gcttaacctc ttctcttaa ggggatctga caacatgcca aacttttggt	240
tctcaactgt ttggttaaaa tttttttaa aacagaatta taatcttgag tnatgaanga	300
aaatgcatgg attgaaacct ccctgtggtt tataaaagt acagaagaga tttatgcttt	360
ttattactaa actcagtttt aagcattccc ttigtgtccg aaaataaccn aganggaaaa	420
ttaaaccnc ctgggaactt ggtcttgctt tccatgtcca acttctcaag ttagtccaag	480
ctcttncctt atatattccc cgtgaatanc caggtgacaa aaattctttt taaaaaaaaa	540
actggnntnt aattaacaaa aagaa	565

<210> 7738

<211> 255

<212> DNA

<213> Homo sapiens

<400> 7738

agcaaaaagt anacttttat tacagcagca actgangcga atcgaatggc cccccagggn	60
caccactgca ncaccacctt tctctccgc cccggnccg ccagcgggat tgtaaaattc	120
ggctccccta ntgccgtgg gcctccttc cacacaggct gggcggganc cggcaaatca	180
acgantaacc cccaactaaa aagggggtng ctgaaaaagg cccaggccca cntctgtgca	240

aaacaagtna acaaa

255

<210> 7739

<211> 271

<212> DNA

<213> Homo sapiens

<400> 7739

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aaaacaacac acatttatta cctaaaagtt tttgtgaatc aataattcaa gagcagcttc   60
ggtgggctta gaatcgctca tgagttgcag tcaagatgcc agctggggct gcagttgtct  120
gaangttctg tttgggctgg cggatctgtc tctaactgg gtcactcaca cggccactga  180
caggaagtct tagctcttca tcacagtcac atgggcatct ccatggagct atgtggtatn  240
tncncncaa catggcagct ggcttgttct a                                     271
    
```

<210> 7740

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7740

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agttttncaa agtactttta ttcactttat cttccatata tgttatctcc tctgattcca   60
gcaataacag cccggtgagg tagccagggc aagtatgtat tttacacatt agcaggaagg  120
gaggctaaac gaggtttatg taacttactc aggctgaaac actgaagaaa aatttgtgac  180
tctcatttca gtgatgtttt ctgcattatt aaaaaatatt atgctactcc tcactatatt  240
atgttgatgg ttgaaatgtc attataaagc ttaatttata tgattctctt gatganggat  300
gatgaagcaa atgctccatc aactcactag tttacagggg caagcatttt cctacatttc  360
acacataatt tgattacctc tgtcctaagt gaataatcta ctatctgggt atgagaaaca  420
tgatttgaaa aacactaaac cactatatta tttcaacaaa gaaccacttc acacctaant  480
taaaaggaac ttcaaaaaaa ntcctaacca aaaaaaatcc aatgatgctg aaatccantc  540
    
```

aaaat

545

<210> 7741

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7741

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gaacttggca cctttattca aaacagcccc aaactggaaa tagcccaaat gttcaactgg 60
tcaatgggat aaacaaatga tgatatatac aatgaaatac cacagtgcga tacaatgcta 120
aaaactactg ataaatacaa catgaatgaa tticgaaaac attatgctaa gtgaaaaaaaa 180
ttagacata ggagcatata ttgtgcaatt ccatgtatit gaaatctgaa cacagacaac 240
actcgtctat atgacgggga gcagacctgt ggttgcctgg ggcatgggga atcaagagtg 300
gggactgact acaaaaaatca caaaggaact ttttgggttg atagaaatat ttgatatacct 360
gattgcgata gtgatgggta cttaggtgta tgtgtctgta tatgcattan tctgttttca 420
tactgctata aagaactgtc cgagactggg taatttataa aggaaanaag ttttaattgac 480
tcccagttcc ncaggactgg ggaagccnca ggaaacttcc atccttttta aaaaccnaag 540
gggaacccaaa anccccc 557
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<210> 7742

<211> 517

<212> DNA

<213> Homo sapiens

<400> 7742

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gggttcacaa aggattatit atcaaattat tgcaaacggn anatagcttg tgacanaaaa 60
tttccttggg tctggaaaat aaaacattta cgtcataaaa acatccttat aaattaattt 120
tacgtaatta attttgtttg gcttgatctt aattagcaat ttinggactat agctgattgc 180
gaacgcttcc aaagaanaaa ttaaaataat aactgtgaat gacaaaaacc cagaacagcc 240
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ataggtaaag atctgattaa cattaccaat taaccaggaa atttaagtgc ttctgtggca 300
 tacaatcatc caacataaaa attgcaatta ttacaggtat ctcagcatgt cagtatctta 360
 ggaatctcat aaaatttcac atttctataa atgatgaact tacacaaaca cagcttaaag 420
 aaaggtaaaa caccatttct tatttgacaa tgcttcnagc agtatttgcc aaataaacn 480
 aatcattaat aactnntcca aaaaaaaanc ccttggg 517

<210> 7743

<211> 412

<212> DNA

<213> Homo sapiens

<400> 7743

aaatgactta catcttttgt attatccaat acacagtaga tactcagaat ttactccaat 60
 gaatgcatgt taaaaggatt tgtacagaca caacactctt actttcaaan agcagaggaa 120
 cattttatat antgaacaca tacacactgt ggcaatgtna aactacttaa ggaaggaaaa 180
 atatccccct cccanccag gtactgagac ctggggctaa aattttttgt cagtcagccc 240
 ccatcccat cccttatctt cgagtgcctt taccaggaaa cctggctttg gtggaaagga 300
 aagctgtggg gcttggggac ctgatgcctt ttcttttggg angaaagggc acctgcacna 360
 tccacaggac agggagtggc cagcancat cctgagctga ggctccnaa na 412

<210> 7744

<211> 529

<212> DNA

<213> Homo sapiens

<400> 7744

cgggcactga aatcttttat tcgttaattt agtttctggc aagtgtttcc tcaaatcat 60
 catgtagttc cttgaacgta aaaccacaca ttaaaaatgt tattccactg aaaatgactc 120
 ctatgcaaat atcgacatgt gatgtgtgtc caaatgccag agcattttga gaaaagaatc 180

ctctacaaat aaaattaagg tataagctga gtcagggatg atccgattcc caccaccanga 240
aatggcccgg agctgcacca actcancgag gttggagctg aaaccctgag ttaatgatca 300
aaagggacaa gacaggaagc ctggggaccg tggacaggga aagtgcgcan ccctgattgc 360
cagtgggcgg aacaggggtca ggctcgggga aaacangaag ggtggtgggc ggtgggcccct 420
gaacaaaaca ggcctggccg aagctggggg ccactgtgca ctgaggccaa aagaacaggg 480
tggtgggggc annttttgaa angaacaaaa aaggggccnaa aaaaaaccn 529

<210> 7745

<211> 428

<212> DNA

<213> Homo sapiens

<400> 7745

ggcatgaaca tggactacag cgtttaatgc agacccaaag ccacacattt ttggggagta 60
ggttttactt gcagtacaga ttcttttcat tacagatcac aaaaatacaa tacaatgtga 120
caagcccagt ttaagaatta catgcagtag ctcatattaa cacaaacagc tccccacgaa 180
ggccgacaag agctaaatcc ggtgtcaaca gggttcattg caggagtaga ataatccggt 240
acaaggaacg agaacagatt gaaaccagaa acaaagccat gcctgacagt caatcaaggt 300
caatctgatc atttccatga ccaattaccc ntgtgaacaa ttcaaaatga cggttgaana 360
ctgagcaccc tgtaccaca cacgatgcc ncagcttggc anaangtgca ccaaccttgt 420
ttgaaaaa 428

<210> 7746

<211> 247

<212> DNA

<213> Homo sapiens

<400> 7746

cttttttttt ntttttttac gtactcatga ttggctttaa tatttcttta cactatacat 60

actgaaaatg tttacattta ctaataagga atgccaagcg tatccatcac catttgaata 120
gcttgcaggg gatttgtgat ttcttccatg ttatctcttc ncaaaaccca atctggntta 180
agtcttgaaa ctattctggt ccttacaggt gtttcnggga taaaaggaat gcttatanaa 240
aaattcn 247

<210> 7747

<211> 515

<212> DNA

<213> Homo sapiens

<400> 7747

atataacttt tgggcttgaa agcaccgaaa tcttttctga atgataacaa cacaagatct 60
aatataaata tacttccgta attctttatg cattctatac catgattgta tgataatagc 120
agaattttct tcttttagctt gttttcttaa atgccattct ctaaaagctc tttgcaatat 180
tactgtagct ttacttgtg attgcatttt acgttgcctc cattttctga acatagattg 240
gattataaga gttgatgatt ttagcatttc atatctttgt tgatcttggt ttcttcttaa 300
ataagcacgc caatgcctct gaaattgtna ctgtngccca aagatatcgt ttataagatg 360
ttacagcaat tatcattctt atcctaaatt ggcgggatga tgaataattt ttccatttcc 420
gaaaatcttt gtccagtggg aatattctcc cccatttncc cggaaaaann taaggncggc 480
tttattttgg aactttttcc cacctttccc ttttt 515

<210> 7748

<211> 156

<212> DNA

<213> Homo sapiens

<400> 7748

aaaggttggg agatatttat ttcttttaaa caaggtcata aataacaaaa aacaaagtag 60
gtcccagact ccggaccatg cagcaggaca ggggtgggag gttgttgagt ggaaaggtgg 120

aaggggctac acatcaccta agacnttcac anaana

156

<210> 7749

<211> 501

<212> DNA

<213> Homo sapiens

<400> 7749

ctgaggaatt ggctttatatt agataggaac tctcaaaatg ggagacaagt tcttctcatg 60
 ttttcaatag cagtctgaat agcttttgta aattctctta tgtcttttct cctgatctct 120
 gacactaggg gagactcaag taaaagcttt gacctatcac tcatcttttc ctagcaagan 180
 atagtgttct tcaaagcact agcttgata aaaccaatcc tganatccta agctggctan 240
 aaaaaacaaa atcttcccca ccgctcaaac aactggcctc tttccttacc tttcgcaaag 300
 caatgaactt aatgcactag gcattagcaa agggaatcgt tcactagctg cttccatcac 360
 tgggcctgcc aatgtcccag cacttcacac ctgggaacac aagtgttatt gncacaaaac 420
 acaccaagt gtgctatcaa cacttgtgtg gaaangaaaa naatttctaa aaaaatgtca 480
 ccctcccagg nccnaaatta a 501

<210> 7750

<211> 587

<212> DNA

<213> Homo sapiens

<400> 7750

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 tatttataca catataatat acaccatata tacttattta tagatattca cacaccagcc 120
 cacacactcg cacacactca cagcacaca cccttccagg aggggcgtgt ggctgccttg 180
 gagtcccgt agggcccaaa caagtgatac tgggcttgcc aggcagttgt gaggttttgt 240
 gttttttgct tttaaaaaga angccatttc ctccanatgt gtcctccctc tccccaagcc 300

ctaaaactcc tccccaaaac actctgaaaa aaatTTTTTTT aaaacaagag gttttccttt 360
gctctggccc aagtagtttc tggagantcc aggcccatcc acaagtcccg tgcaggtcct 420
aaaacacnaa aaccgggcgt ggccttggtc aggcctgcaa ctgtnccttc tgaagggaag 480
aagggaagcc tatancatcn aaggcacctg ccaaaataaa gaaagggtgtt gttcctctcc 540
ccccaanggg gctgccnccc cctggttnc aaaccctcc aaaattt 587

<210> 7751

<211> 573

<212> DNA

<213> Homo sapiens

<400> 7751

acaccaaatt tctgcaactt tataataatg aaaattagaa acaacctaaa tagttaacaa 60
catgggaatg gttaaataaa ctgagttgca tccattaaat ggaatataat atagccatta 120
aaattatgtt ttgttaaaat ttttaatgcc ataagaaaat gtggcaattt tgcaatgaaa 180
aagatctact tataaaactg tttacagtat gactccaatt atgtaaaaaa agtatacaat 240
acacatatag gcatacatgg gggttgcttt ttaaagggtg ttacttctgg gttgtgatat 300
tatcagtaat cttttttgct tttttataca tttctgcatt tttcaagttt tctatgatga 360
gtatattatt ttacaaagac tacgaaaatt ttcctctgat atactggtaa ttanaatgta 420
cttgggttat tttaaatata tgggaacaat attataatgc tccanctcca agactttttg 480
ggaatacata tcacttnggt aataaactac atccccgttt tatctgttaa caaatTTTaa 540
ttaaacagtt natattgtga taaaacatgt tgc 573

<210> 7752

<211> 531

<212> DNA

<213> Homo sapiens

<400> 7752

ataaataaaa tatacaatgc catttattgt aattctagaa aagtttttta cagaatgctt 60
 ttgttgattt ttgttgactc ttctatccaa cctgtttgca attcaaccat gatatgacac 120
 aaccagacta caaataaatg ttgtttacta tctgattcaa caaagcagtc actcatttca 180
 tggaatggat atgggctgtt actcagtga aagacacatg anatggttca gtgctaactc 240
 acccttctga cagaaaatgc cagaaagttt ccaccccatt gacaggcttg gagtcttgan 300
 taccatctgg gtgggtggag ctggcactgg cagaaacct ctccactgct atcctgacag 360
 anatggggca tgttcttccc agggccactt gccaacccan ggaggtttcc catcttgctg 420
 gtttggtgaa ggaagctgct ttcaaatttc aagtggacct gctggcctgn ataaggctna 480
 agggcctgcc tccaaaaagt ttctccnctt gttggcatta ccccngaant 531

<210> 7753

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7753

atcagttgtc cacctttaat ttccaatact gtactttctt aacaagcata caaaatatca 60
 aacttctctt tagaaaaagt gccgttcttt gacatccttt acacaaaaac agtctgagcc 120
 tgtggcatgt taatgcagtt gagaggcaaa gcatacgaac tttacaaat tctaccttcc 180
 ataaaaagcc tcccgaag gagattacac gccactataa aaatatcaac ctcttgttgt 240
 agctgcatta ganaaccaag gcttgaagac tattttcata tagcatagaa aaaccactat 300
 ganagcatat taactgcatt ggtggcttgg gagtgttctg tgccacagga ttatgcatag 360
 ctactgttag gtnccaagac tgttatacag ttttaattg attgtnactg agagcatnac 420
 agaagtacta ccagcccatg caaaataact aaaaatactg aatcctgtg ctgaatactt 480
 cctcccggga anaaaaccaa agggcgccgt tacttaantc caaccaacn ggggaccaa 540
 ntccccccc caaaatt 557

<210> 7754

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7754

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actggtggat gtctgttttc tttattggta gtttggttta gaattgtgat gattacaatg   60
gactcgtgac tacacaagca gtaaaaagca gccagctgtg cttttacacc atggtttcac  120
acaaagcagc taaagaaata tcagaatgcc taattttcta tttataaaa gccctaaagg  180
catatggcag aagaatgctg gaaaaatcac tgtgggaaga atatgcataa ataaanaagt  240
atttcttacg tcaaaaaagt cccaagaaat cacaaaatct gcanaagctt ggттаатcaa  300
atactgcagt actgatttaa tcagtataaa atcnaaagag ctttagatct gtaataaaaa  360
tccaaatttg gggaaggga aactttaaaa cagcagccaa ttanaaaagg gttggggaaa  420
ggaaaagtaa ttgaacagcc cattggaact gtggggacat gtactgacca ctgtcaaacc  480
atgttanttt cttggttccc ctggaaaacn tttatacccc tattttcctc cctccttctt  540
aantccacca tgtccaattn                                     560

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<210> 7755

<211> 258

<212> DNA

<213> Homo sapiens

<400> 7755

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acttaacatt atagtcattt tattgctcta ganagtttag tttctaaaac cattggatta   60
cttacatagt gacaataaga ctagccacat acacaaaatc aactgtatga ggctgcttct  120
ccagcttagt ggacaaatat tacaaaaata caaaaatagc tgattatagt taagctatcn  180
ngtataatat ttcatgtatt taccctaaga atatccccctn tttatagata aggagatgaa  240
cangngtaaa actaatgt                                     258

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<210> 7756

<211> 295

<212> DNA

<213> Homo sapiens

<400> 7756

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gnngnggtat ncacttcagt aacttgaatc cacagatatn agcagtatat aaccagaaag   60
ttacaagtaa acacaaatta tacatgcaaa tttctgttca caaaggtcac atgtgcaggt  120
acatgaatta gaagcgtgca tctaggatta tggncaaact gttttaaaaa tgcagaaatg  180
ttaaattaca tcttgaaaat atgaaganat ggtctacaca cttcaaaaat caaatgttgc  240
ttatnccana natgtttgac aatcacggga ttcnagtgc aagcagtaag atctc      295

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<210> 7757

<211> 217

<212> DNA

<213> Homo sapiens

<400> 7757

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gatnttttta ttttntcaa cactgttaaa aacatttatt ctgatacatt ctatcataag   60
ttagnacaag atccactctg ctacagatgc gtctgtgaan agcctngtgc catccaacta  120
gtgactgaat gatgtcccat ctcttatccg agncagagca cacatcttcc atgctgtccg  180
ctgattgnct ccaaatccan aanaccaa atcctt      217

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<210> 7758

<211> 493

<212> DNA

<213> Homo sapiens

<400> 7758

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aagattatac gaagtgattt attgatactg gttacatcc attatataca ggtagaaact   60
ttcaaaattg tacaagaac attaagcata ttgataaaga cagttttaca gacaaaacaa  120

```

ctggaaaata gttttaacat acacaatata taattatgaa aaaaatgtag aacacatatt 180
 gttctaccag ataaatccca agggtattaa aagtctgcta tgcagacctt aagttgaaaa 240
 atgtgttcaa tggagttaca tggttttaga aaattaagta taatgtnaaa attaagcttt 300
 tttttctcat tgcaattggg agaggaactg agacaacttt ttaccccnaa tctatacagt 360
 ttgaaaaata atttatatgt ctagcataaa gaaaattgag aatgtttatg gttctgtgaa 420
 cttgnctttt atgaaatgcn acccctcgt ttnaaaaatn agaaacctgt gcntccgaaa 480
 ccgaatgggc ccc 493

<210> 7759

<211> 385

<212> DNA

<213> Homo sapiens

<400> 7759

agggatitaa ctatctttat tttctgggta aaatitttaa aaaaagtggg gagagggtga 60
 gagtcntaag gggcaatagc aatagagatt acactgtgct gacacagana ctaaattcta 120
 gtcagantga anaccatata aaagggcggc tgatgggtta aaggaaataa ctacatggaa 180
 tctaattcca agacatccat gaagtttaca tctccattat taagccctna agtaatgtta 240
 agaaaaacaa ttctccaaca aaactgggag tccacagttg tcaagtatgc tttctcaggc 300
 acggggtnng taaaantctg gagaaatggg ttctctccat gcccaatgac aancaagac 360
 ggtcctaagt ttgaggttaa naaca 385

<210> 7760

<211> 440

<212> DNA

<213> Homo sapiens

<400> 7760

acagtcatgt gtacaatttg ttacaaaacc atagaagact acaacttggt ttaaattcatt 60

tttggctctgc aaatatgtaa aatctgtgtg caattatcat gtatttacag ggtcttgtgt 120
tagtcatttt caatgattat tccaacaatg tcacactctc aacataagac atggcttaag 180
ataaatatat tagcaaataa atattctgag aacatatttc cataaatgaa atgtgctgct 240
atacatatac agaataatac taagttgtct tctagctttt aaaacatttt ttaaaaatgg 300
taatgttgga aaaagaccct tagaccattt tattacaaaa tctttacagc aaggctctta 360
caaaatctct ttttaagtgt atgggaaaaa ttaaaaaatt ttaaaaataa tgnccctgtt 420
aganccnccc catanaaana 440

<210> 7761

<211> 481

<212> DNA

<213> Homo sapiens

<400> 7761

gcaaactcaa tctttattgc agctgaaata ctattttcgt taagtctcgg acacttagac 60
ccactgatcc tggtactctg cttgtctctg gtgtgcaggg aatcattttg ctggattaga 120
ggaaagggtgc cgccgtctgt ttccatgact tctttaaaaa ctgccttgaa atgaaattag 180
ttcatctgct tgcttccgtg tggcagcctc ctggcccgcg gctgtgccag gcaccagtcc 240
taagangcat ctatagacta gtgcttatgt gggaccccaa gcctcggcac agctccatac 300
cacctatcct gagctgcctc ctgggggacc gtgctcttca gcttctacca gcaaggaagg 360
canatacggg tgcgtgcgtg gggcaaaaaa acacagcctt ctganttcan ggtctcccag 420
atcttcactg ggctctgaac ttctggghct gtggncacct gttinggccg cttctgctaa 480
g 481

<210> 7762

<211> 423

<212> DNA

<213> Homo sapiens

<400> 7762

```

ggtgatgaaa aaatgttttag tttattttaa attcctgttt agagtcaact ttattttactg 60
gctcctgtaa ccagtgaac attctgaaat gtattagata atggttgtat gttttatata 120
tttcatatcg aatatagtaa gtgatttaat caattaacaa aagtcntta tttgtgaaca 180
atgagagaga ctgacactag ctttgtatgg ttttactttg gaaaatttta caaattttaa 240
gtaataaatg tattcatitt ctcactctgc agaagttcan ttttaaaaag aacattactg 300
ttctaaaatt tcacaacata caacatantc tgtgcttgtg acatttccca atttgtctgt 360
gacagctnga tgttttgaaa aaaaaagaag gagaatggct gtnattggan aaaaaaacn 420
aaa 423

```

<210> 7763

<211> 500

<212> DNA

<213> Homo sapiens

<400> 7763

```

attgtatgat tgtgtttatg tgaaatgcc tgaagaggca aatccacaga cacacaggaa 60
gattancggt tgcccganga tgacngtggg ggaaggggaa ctgctattgg acatggggat 120
tctttttaag atgatggaaa tgctttgtaa gtanatagga gtgatagttg cacancactg 180
tgaanatact agaatccatt gaattgcaca cttgaatggg gtgaatgttg gctgggcaca 240
gtggctcaca tctgtaatcc taacactttg ggaggctgan gtggcangat cgcttgaacc 300
caggagtttg agaccagcct aagcaacata gccagaccct gtctctacaa aaaataaaaa 360
aaaacattan ctgggcgtgg tggcatgcac ctgtgggtccc agctactcan gangctgaag 420
cgcgangacc cttgagtcca ngaagtcgat gctacagtga actgtgatca tgccacctgc 480
attccactgg gggtgacant 500

```

<210> 7764

<211> 494

<212> DNA

<213> Homo sapiens

<400> 7764

```

aaccaaagt tatttaatat cttaaaaagt aacacaatcc aaaatggata tttcacacaa 60
cactacataa acaacatgaa acacagtatc accataggga gggactttca aatatagact 120
tacaaaaatc cctgtccttt tttttctttt aagttattat actaagcatg acaagtaatc 180
atcatttaca gtatggtaca ctgacacgat aaaaacatg ttacaaatgt gctgttataa 240
atcagtaaca ttagggaaga catttcatga actgtaatta tttcatatga aatactatac 300
aatataaaca gaacatccat cttgggatga nctttacagc aaccagagac caagtaattt 360
aaaatttttt ttcagtgcaa acacatttta ttccaagggc agtcctgggt gcaaaacccc 420
ttctaacatt cagtaaatec cncctgnccg tcttaatccc ttancccaat gcaatntccc 480
cttcccgtcc cncc 494

```

<210> 7765

<211> 493

<212> DNA

<213> Homo sapiens

<400> 7765

```

atntcattaa gatttaatag ttttttttgg actaagtant ggaaaaactt ttataacttaa 60
ctganacatn ttgtcaaggc taaaaaaaaag tcttgcaaaa tggggcagtg gactgacagg 120
ctgacatana aaataaactt tgcccaatca caacttgtgc ctcccatccc tggagtactg 180
actggcaccg gtaggacaga atctctttga atccattact ccatgcccc ttgaggcact 240
gttgaagaaa tctcactttt cagccanggt actggttctg gtacatatgg atcataantc 300
catttgggga agactcgttt atacaggttc atcagtactg tgtcttgaga ttttagcttc 360
ccatcaaagc tgcatttcat gtggncatgg gtacctaaag gttccttgat atgtcctctc 420
cgggcccact ccgtctcagt tccctgggnn taaaacacaa cacaccncct ctgttgaaaa 480
aaattttacn ttt 493

```

<210> 7766

<211> 309

<212> DNA

<213> Homo sapiens

<400> 7766

```

agtctgaaaa acataatctc tataatcatt taatttttct ttttgaaaa tgtatgtata   60
catacacaca gtttccataa aaaaacatag atagtaaagc tgattaaaat cttcctgtcc   120
tattggtacc agcacatgaa gcccttctac aaaattcctg acggactggg aataaaaatt   180
cctagtgaca gnccactcct tctcaggcag gtgtgattgt ttgaaatccc tcccnatatt   240
gaaatgaaac ctgnttcccn gtaacttccc tgtaattccg tgggtccctt gtnnccacag   300
aaaangcag                                     309
    
```

<210> 7767

<211> 499

<212> DNA

<213> Homo sapiens

<400> 7767

```

acagatgtga aaaaagttaa ttttctcctt gtcataatttc cgattgtcat ttgactcaa   60
aattgttccg ggtattgttt tctttatcca taanaaatct catctaacac tgccatttgg   120
aaagggaaaag aatatgtcac aataggggaa ggtacttcat caacatgatt gcacacattc   180
cattttctgt acataaccaa agtataatat ttagtgctaa taaacctatt ccagatcttg   240
ctaatagtan gaaatggaat tttaaaaaag gcttttaata caaaggaaaa acttttcctt   300
ttttaggtgt tgctgttagt ttatacggcc aaatcctctc atctgacata atcaggccta   360
aggcaattaa tggtaaaagc tgattaaagc aaaaaatcct tttgaaaaca atacatnaaa   420
aaatacttaa acttaaacia gaccttacia cattttgaac tcccanctat ggtggcaaaa   480
cntgccggtc tanccgtna                                     499
    
```


<210> 7768

<211> 472

<212> DNA

<213> Homo sapiens

<400> 7768

```
gtttttttgc ctgtgttaag tcctgttgat gttaagtcct gttgagagca ccaggtaaac   60
actctgcacc ctttctctta gtagtaatag gtttttctact ctttggcctc agctgtcctc   120
acaggacagt gggggcagat cagagaacac atcagaaata catacaaaga aatcgtacaa   180
actggacagg ttccccctccc cctgccacaa ctggcatccc aacagaggga acaagtacta   240
aatcattttt gacgacgtaa ataagactga aaacaggtta aacagttgct gaacttaagg   300
gcatgacaaa aaggactcct ctctctgacc caggtaggca aaatgctttg ggtgtgaggt   360
aaaaaaaaatg ggtaaganca gctgtacana ntgggggtgaa atgttaaaca ggggtgcaatg   420
cccaagggtt aaaaaccaag tccagcgcaa gcctnaaaca caggangcct cc               472
```

<210> 7769

<211> 301

<212> DNA

<213> Homo sapiens

<400> 7769

```
gggggtccgc attttcttaa ctcgttccca ccgctcactg gagaagcctc tctttccagg   60
cgtctcttca gttttctctc aagantgtta attccatctc gcttccctcg gcaacagtca   120
ttcttctcac tgctgggtct cactgggtgaa cttcgggtcaa tctgctgaac aaggcttggc   180
tttgcaagta aagtctggta aagttcnga atttcaagna aggatacctg gaacaactgg   240
gcttccatca ataattcatt cacttctgga ctaacacatg gaggggatac nacttcctcc   300
a                                                                           301
```

<210> 7770

<211> 288

<212> DNA

<213> Homo sapiens

<400> 7770

```

gagaagaccg tgcttataat ttaagaaact gaaactacat ttttgcattt tagtaaaatc   60
tgagattgta cagtttttaa tctcatttcc acagacaccc agcaggcagc ctcttttctc  120
ttagaaaaat caaacatgca agccgtgaag tcaggaatag ctgaaccctt tggatnagca  180
cacnctttgg gcttctttta agcgagcctc tcatcaagag catttccttt gctggcatga  240
aggganggct gtgcctgcc a nggctagcac ctgggangga cgctnacb                    288
    
```

<210> 7771

<211> 324

<212> DNA

<213> Homo sapiens

<400> 7771

```

ggagttcatt caaaatttat tgagctgcaa ctgtgtgctc agcaatgaga atatagcagt   60
gagcaagatg tgaacaagat ctctgccctc gtgagcttac aatctagcag cgcagccagc  120
ctattacagc cataatttta caattgtaat aaaaactctg gaaaatgcat ggtgctaact  180
gatttatcan aaagtcttga cccaccaaga aatcagaaaa gacctccctg aggaaggaac  240
atttaggatc agctaggtgg aaagtgaan gaagantgtt gcaggcagan angacagtgt  300
gtgagggtct gaggcaanac atgt                                           324
    
```

<210> 7772

<211> 538

<212> DNA

<213> Homo sapiens

<400> 7772

aataattctc tatttattaa aaagggctct acagctttac agccacagca ccggacacgg	60
ccctggacag cgacngcgaa ccggccaggg gccgctttgc aacttcaatg ccaagctcac	120
gtctggctgc gaccgtggca ggctgtggca tccccgacag cggccggtgg cggaagtatg	180
ggggcgggtg gcaccgctca ctcgagattc acagaacatg gcaagcccgc ctgactggca	240
tggcagtga tcntcctgta cagcttcatt tcaagaaaac agttacagta nanttcaagt	300
ccgagagcan gaatgtatgg tctactgagga caaaangcaa tggcctggcc cgtggcccaa	360
accccgttc agttctgcct tctgtcacc tggcggctaa gcacaagtcg gggccctgga	420
tccccacaag ttacaaggga agggcnggcc aaaaagtccc cttggttaac ncctccgcct	480
tttcentcac angttccact gccccctgct tgggcccctgg ggcctccacn cactttgc	538

<210> 7773

<211> 490

<212> DNA

<213> Homo sapiens

<400> 7773

ctggagtcac aatttcagaa agagtaaaga taaactttct tattaataaac tggttttagg	60
tccaaataat gaagatgtag aaaaacaacc tacagtccca ttataacatt ttgaaattca	120
tttataaaaa atttacagca gctgtaaagt ttcagtatcg taaggacaac gtgacacctac	180
aaacagccaa aggatgtaga caagatgttt ttctgtcttc caaataacac aaactgaaaa	240
gaaaagcctt tgcttttctt tggccacata aaactagtat ttccacacta ctggttaata	300
acccaagaa acctttgctt ctcttagtca atttgctcat tatggctaca agactacagc	360
tcaacatcac aagcccagaa aaaatgctgg taganatcca tcctgagcat tccccgaaaa	420
cccatcacia catttccagt gcttncctat ttggtccana nctatcntac cagtccttgg	480
ggcaaaatgc	490

<210> 7774

<211> 425

<212> DNA

<213> Homo sapiens

<400> 7774

```

accaagtgtg tatttcaatt tactgtatgc aatctaaca aaatttggtc ataatttacc 60
agatatacat aaatgattta agtagtaaaa gaaaattcag cttcaagaga gtaagttcat 120
atcttgagga aaagtaaaag tacattaaga atgtaaagcc aagtccagtt tctatgcaat 180
aagtgaactg tagtctaata aagcagattt aggtgatttt tagatatata tctttgttct 240
ttaatatata tttatatata gacagatcta ccaattgtaa actagtttat ttaaaggaag 300
gggataaatg ggatgaaaga aatctttata ctatacttnc atattcnca agaacattta 360
cgtttaaaat acttttccat ccatagtatc ttinggccact aattcctnca aaaattcntt 420
ttacc 425

```

<210> 7775

<211> 478

<212> DNA

<213> Homo sapiens

<400> 7775

```

gatttgataa atgtttaata atttatcaag ctcagaaaat tttgggacaa agtaccattt 60
aaagataaag caaataagta cagctaaata ttgtagtagt gtataggtgt tacactgaag 120
cctgtgtata agcattaact atgtaccaat aaatgcaaag aaaataaact ttggttatag 180
cttatctaaa ttaatctcag aatttgacaa ttaaacadat gaatttgtaa taaacattct 240
gcattttttt aaaattcntc catatttgn acagtggcna aataatctaa aatcagaacg 300
ctttcctgaa gtatattatt ataattcccc acccctgaca gatgacaatt ttagaacanc 360
ccaaatcaat tctagtttat gccctaaaaa taaatgttta ccagatagac aacnccat 420
aagtataagt tacccttcc aaatttnagt aantttattt tcccangtg gaaaacca 478

```

<210> 7776

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7776

```
gtacacaaat gttcataaca gctttattta taacagcccc aaactggaaa caacccaggt 60
gtccatcgag aggtcaatga acaaattctat tcaatgaagc agtactcagc aatgaaaaac 120
ataaaaacaa aaactcgtga cacatgctac cacatggatg aatctcaaaa taactatact 180
gagtaaaata tgcctgacca aaaaagggat acatattgta tgattcaatt tacatagaat 240
tctaggacat gcaaactaat aacagggcac aagggcactt gggaatgatg ggtccgttcc 300
tcacttcagt tgtggtgata gttttacgca gggatatacat acgccaacac attgtacact 360
tttgatacgt gcagttttatt ggggtgtcaag tacacctcct aaaataaaaa tattgatggg 420
ctctacattc tgganacacg ggcagtanaa ctattatttc cacttgaaat ttttacctac 480
cctttggtaa aaattctttt ggaacttttc tcncanccn cggcaaggaa aacaaaangt 540
ttaaac 546
```

<210> 7777

<211> 493

<212> DNA

<213> Homo sapiens

<400> 7777

```
aacttttagaa tttcatttta ttaaataac ttttaaaaca agcacctctt ggcaataaaa 60
gcaaaaacaa aaaacaaaca aacaaaaacc caaccaaaaca atagtactcc ttccactcta 120
tgctaacgga agactttctca caccagccag ttaaacaatg aaattcttaa acacgcagcc 180
tgctggggct gcatgcagag ctaaaatgca ggtgtgctga cttcttggag ctggagcaga 240
ggaaaacatc aaaaagcata tctggaatct atcacagctt tctttcttaa gcaaataaaa 300
atgcaaatta gtttcataac cacaattcaa tttatcaaac tttttctgaa gaatttncat 360
ttaattatgt tatacataac aggaaataaa acttttncac aaacactctc aaggnttacg 420
```

attatcaaga aaatgacaaa gttaaagcag gaggaatntt tgacncatgg gggggaagnc 480
aattccggtt ctg 493

<210> 7778

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7778

aatacatgac accaatggat attttattat agcttcttaa ttatttaaaa agaataacat 60
ttgttagtat acagttatta taaacagtta attgtttaca ttcattattt gtattcaaag 120
aatcctagcc gatctgaagg ctttcccata ctgcttacat tcatanagtt tctgccaagt 180
gtgagtgctt ccatgcattt gaagtcttga ggctgatctg acggctttcc cacattgctt 240
acattgatac ggtttctccc cagtgtgagt cctttcatga tattgaaaag aactggaaga 300
agtgaagct ttgcccacat tacttacatt catagggitt ccttctggtg tgtctttaca 360
tgtctatgaa agcaattaag caagctgaaa tgctttccca caatccttac attcatacgg 420
attctctctc gtatgagtcc ttcatgtta tatgcaagga anaaaaataa ttgaatgctt 480
gtttggcatt ccttaacatt ccataggttn ctctcccggtg tttntttttg gcctgttttc 540
ccaaccaatc ttngggnaaa atnt 564

<210> 7779

<211> 447

<212> DNA

<213> Homo sapiens

<400> 7779

aaaacattaa ataattttat tcttttctca ttacagtag ccagtggtta agcatgttag 60
aaaacctgaa gaaattttaa agtttttggt ttacaaaaag catgtataaa aatacctgtt 120
cagacaaaca aagatctgat cattacattg ccagcttta agaatgcaa aaataactaa 180

aatactgtca atcaaatgag agggctacat gggtttatta aagtttattt taacaatttt 240
 agctaagcag aatgtgctaa tgtaattcaa gttacagtta ctgccagata acataagaga 300
 aaacattgtg tgtggccact taagattatg cctcaaacag atactgtttc gtgcgcagaa 360
 cananttggg gaacacagct gggttnagtt tcaatggtaa gcncataaaa gatcnagaaa 420
 atccccact tttctaataa ccgctat 447

<210> 7780

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7780

cccttttaaa aattaaaact ctttatttaa acctcttaac agcatcttat caatttggtg 60
 gcagcagcag aagcactacc aaagacagat attttgaaaa gcatttacia aaatacattg 120
 cacaaagtcc tatcttgcac ctttaaaaat aaattaatat tcaaaatatt tccaccccaa 180
 atcccaaate agttttatat aggaaatatt gatttatata tgtaacctgt aatatatgaa 240
 acatctgtac attttatctg ccttaactgc atagttccaa ttctaaggag agtgaaaaaa 300
 atgctgcttg atgtatgaat agtttcatac atcagtgtat ttgaggactg ttgtgcaata 360
 tacagaaaac cagtcagcac catcgttttg tctttttctg aaaacacaac atttacggta 420
 cactgaaaaa ctgtcttaac ccaacacaac ttaaataatt cttanggtaa aacatctgtt 480
 acactttaag tgcctggtna attctcattt ataaagtccg gcncngtaaa atatectaate 540
 ttanttg 548

<210> 7781

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7781

aaggaaaaac acattttaata aatacaactt ggaaacgtct ttttctttaa attaggttca 60
 aatactggga gacaaacact gaaacaaaag tcttaacaac gcacttaca gccatcataa 120
 catgcagtga tcctgcgaga cactgtgtcc actcacagcc atgttaactg ggggccactc 180
 cctgctgccg taccatcata tgaatataca ttgttcagta aaaatgtgac aaaaatgtga 240
 tgtttttcca ggtttgtgtg ttttcataaa gttactcagg ttttagana atgaacatag 300
 gaacatgtag gatccacaat ttttaatgtc ctcaggttag ttgtattta caaaactcta 360
 agaaaataaa tgtgtgttat gtttggaaact gctgctttga atgcaatata tccaaataat 420
 gaagctgaac ataaccaana cgggaaaant tatccaaact ttcccaaaag cctatttggg 480
 aataccaccc cttggcttna aaaaaaana tggaattttt taaccatttc canaattaaa 540
 aaaaaaattt atnggaagna 560

<210> 7782

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7782

gctaaggtag atttattgtt acacatggtt agttttcata acataatccc ctgccccaga 60
 gcaactcagg actccatgga gcaggaagcc tgctcttggt catagctcat accacagcag 120
 gcaggtcacg ggggcatgct gtgctgccaa gtcctccaaa ggaagtcaca aaggtttgca 180
 tttgggacat ttaaattcac aaaatcagga gaaacaataa atgcacaagg gctgggtgcat 240
 atactttggt tacagtgcag ccaccacaca cggtcacgac tgtgcaaaaa tgctttcaaa 300
 tcattaaata aaaaagaact cacacaagct ataaaaatgt tgccacaaaa agctaaactt 360
 tcctctaaaa aatattaact gactttgact atnaactaac tccanatttg ctaaagtaca 420
 agtnttggtta ccataaatta attatttttg ttccataaat tacatcctat naatccttga 480
 aaaaccaact cacanggtc ttgaaaaaat gggactgtcc tccntcctgg ganattttaa 540
 ggaaattant tttgc 555

<210> 7783

<211> 506

<212> DNA

<213> Homo sapiens

<400> 7783

```

aatgtttcat tctgtattta aatttccttc aanaaagatt ccttgatcca gtagtaggga    60
actctgtttc tgtacagtta atgtgtaatt tttatccttc tggcaatatt acaaatactg    120
agtcatttaa tcttcattgt ttattctcca ggggtaattc ttgagttatc tcacatgatg    180
taagtacat ctttgcagta tttcatggat tccatttggt ttgtcatagc cagaacatca    240
tgaaatccag tacttaggcc anacatatgt tgaaagtatg cctccttttc cacttgaatt    300
gttaaattgt ttactccagc atctttaagt attcctgtaa cctgctgtac tattctttgt    360
tctagcacat caaatgtcac ctgtatatga attgttcng ccacaatact ancanaatga    420
ccccaaaatg aaggtctcgg tatganatta accctccaat tttccgtttc tttccaaagc    480
aaatgttatc cttttccana tccngg                                           506

```

<210> 7784

<211> 279

<212> DNA

<213> Homo sapiens

<400> 7784

```

ggcttgtttg atgcttttaa tatcattatt tgtgttacac gatacacaac caangatgat    60
ggccaatact gcaatgaaaa tgttaaaaaa aatattatac acgntcatg tcttccacac    120
accttcttgg gaaataaatt agtgagcacg gagaaactgg gctgggtggc ggccacagct    180
ganagaggag ggagtgttaa ggcagtatct acaangggaa nggtggcagg agggcaagct    240
aaggcctana ttcttccctc caacctccca nacaggga                                279

```

<210> 7785

<211> 244

<212> DNA

<213> Homo sapiens

<400> 7785

```
catgattggt ntaaagtttg attgtnaact ttgctgttgg atacaaaatg aaggcataca 60
actgtcacag gcagggcant aagtacaaag tctaagctgt aanaaccgtt tgaaaatana 120
anctcgtttt tggaatacat gtgtcaaagg ctgcccatgt taataccttt ggggnataaaa 180
cggtaacgat nccctgtgac aaaccntcc atcacctgac gcacattcnc atctcctggt 240
nact 244
```

<210> 7786

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7786

```
agttatacag gttttaattc cagacaacag aatagtggct attaacaata aaatcagtaa 60
gtattctgga catgtttaac ttgaatattc aggtagggga ttttattgga aataaggatc 120
tagagctagt ggaagaagtt atatttagga ntcattcaca aagaggcttg agaaacaaat 180
gaaaatgtat tgagaagtgc atanagaaca atgttaaggg ggctgtgggg aaaaaacaac 240
atttgaaga taactgaagg aaatcatana ggaaaaatag tacaatctaa tttctctccc 300
taactgaaag caaaaccact ttttaacta agaatttatt atgatctctc catgatacta 360
ccattttttc aatcccaaca atcatcatca catccagag ccatctcatg acaanancct 420
ctaaatatta attgcctgaa cactgaagaa aattatttct gatctaaggt gttacttatt 480
ctctttatta aaaaaaaggg ggccagnccc ggtnttcctg cctgttttcc cacccttttn 540
ggaagccaag ttngtt 556
```

<210> 7787

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7787

```
ccacactttt tggtttactc ctacttgagt taagaacact aacaataaaa tttgcatgca 60
atgaatatgg ttctctaaat acaacagatg aattatttta catacacatc ttatTTTTat 120
ttatgganaa tcggttaata aacacatttt aaattcaata tattatgtat ttatgagcgg 180
gaagcaacct taaacatttt aaactccaga aatatacaaa acaattataa gtgaaataat 240
acaaagtccc ttgtgttttg atcctggagt caaaccatag aaatctcagg ttattaagag 300
aactttgaaa aatattgttt agaataattaa aaatcatgtg ttgggggan gggagggaat 360
taacagcctt tctttgcctt aaaatacttt acgttttatg aaattgcaat tggaatgaag 420
cagctcctaa agtagtcagt gttcagagga agagaaaatt gagcacaaga nccaactacc 480
attttactca gtccanncaa tgcttaactg aanaactcac ttaaaaaact gttnaaggtc 540
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<210> 7788

<211> 450

<212> DNA

<213> Homo sapiens

<400> 7788

```
acaaaaacct ctttgagtcc tttattaacg tctggagatg tgtggtacat acaattaaca 60
gcatcacacc agctacagaa gtacagataa ccaagaatgt ncttcagaac aaggatctga 120
gagcaactta tgggtgttgc tgctctgaac ctccacaaaa acccagttct gacacacgca 180
agacagacga tataacaatt tcncttgga atggtttttt ttaaaaaatg acaagaacta 240
atagttcaaa ccctttagan tgtgagatgt ggcagctcgc ttggtgccgt ggcactgctg 300
gtaaaaagcc aacatgggca tttgaaggtc aggcacaaag aaccaatggg gtgggggtgga 360
aaaagtttta ttncactgt ncaaanatac agatgggtccg agtggatact tccgtccagg 420
ctcatntggg gctgcangaa tcccctaaat 450
```

<210> 7789

<211> 533

<212> DNA

<213> Homo sapiens

<400> 7789

```
attatataaa cttaaccttt taatactggt nattttnagc ccattgttta aaaaataaaa 60
gttaaaaaaa ttttaactgct taaaagtaaa gttttgccat tgnttgaga aacttttttt 120
tccttctctg cgctgccagn tgtaacactt cttctggatt gctggcattc aactctgtct 180
ggccgatgga tttgattgca atttgtcttt tatctgttac tcctctttta tgatgaagat 240
aagtcaagta ttccaaaatg gtaacatccc atatgtagtc gtagtaggag tccatagcat 300
catgactgtt ttgttcttgc aaagatttaa acgctgtttt gtagtcaatt tctctgagga 360
actgacataa aatagccacc tgtgtgtggc aattcagcaa agaacaacat gttatcattc 420
gtattattac ctggtctgta taaacatcaa ggggcacagc cttgttaaag aagtcagaac 480
acacagctcc tggctggaag taatatnaaa aantgntgaa tactgaatcc ttg 533
```

<210> 7790

<211> 486

<212> DNA

<213> Homo sapiens

<400> 7790

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cagtttacta aatcaacatc ttatatctct atactaaaca ctagccacta cttgagggtt 60
attactgttg tgattatggt tataaaacag ggacatcttg cataccccta atggtgtgaa 120
taaaatcaac tgtgtcagta cctttgagca cttcataact taaaattcta aaaaattgag 180
atttggacct acagtttgct atttaacana ccaagtctgg tcttganant aaaaccccat 240
caaaaactgg attaaaaaac ctcatccagg cagctngctg tgacaaaact taaatcctgt 300
cgtacgttgc ctgggattcc ctcaaggtct tttnccattc tccgaggaaa taatgacttg 360
cttcagtccc gctctgtgtg ccgccagcac tttgtcttta attccccac tggaanaana 420
```

anaacnctca gtgttatattc tccagtcattg ggtacatctg aacgttccac ccnccccctaa 480
aaattg 486

<210> 7791

<211> 498

<212> DNA

<213> Homo sapiens

<400> 7791

gaatcgttgc gattaacttt attaatattt taaaatatga aaactgtaaa acatagtatt 60
tatgtaaaca cctgaggact gttcaagtgg gtacagcatc tncatacaaa caacttgaaa 120
gaagaccaag ttttaagtaag aatcttatga catgtaagga ataacataaa tgaagctatt 180
ctttaaatag ttgcattcat gtctaaagta catttggttt tctaaaaaga aaatgtacat 240
tcttgccctt ggtgaatatt ttattggcat ttacaacaaa tggctaatac ttttataact 300
gattctcata gcttataaac attacatcaa agttacacaa agtaataaca ataaacatat 360
agcaccattt cctcttcaaa gttctaactt ataaaataaa gcccacaaaca tggctggggc 420
atggggggct catgcctgta atcccagcat ttgcaaggg ccaaggtggg gnggacncc 480
tgaagncnag aatttnga 498

<210> 7792

<211> 475

<212> DNA

<213> Homo sapiens

<400> 7792

gttttttaag aaaaaccaat cgctttattt ntcctcaata tatgtttaga aaactgggtct 60
gagaanaggt ttcatganat agaccagagg actatgtaca aaatcaagag ttctaaacca 120
ataataaaaa gggcacaaatg aagcacacat ccccaggggc cacggnagcc taggaccttc 180
ctatcagtgg ggaggcaagg tctttgacgg cttttgagtt cagctgaggg atcatgctga 240

tcttcangag tttgctgctt gcatacttat tcttgatggc gatgaattta gtttaagtttt 300
catttacttt caccacattc ttggccatgt gctgcatgac ttccaatact tcatttctctg 360
tgtatcctgt gtaatactgc tgctttaagt tccattttcc ttgtcctana acttctgana 420
caagcaggaa gcagctgctg ctacctttta aggatgataa tgcnccatat catnt 475

<210> 7793

<211> 510

<212> DNA

<213> Homo sapiens

<400> 7793

gagtggagcc ttgctctgtc gccaggctgg agtgcagtgg tggaacttgg ctcaactgcaa 60
tctccgcctc ctgggtttta gcgattcccc tgcctcagcc tccagagtag ctgggactac 120
aggtgtgcgc caccatgccc agctaatttt ttgtatttta gtanagacgg ggtttcacca 180
tgttggccag gagggctctca atctcctgcc ctcatgatct gcccgcttg gcctcccaaa 240
gccccctttt taattttttt ttgtagagac nangtctcgc tatgttgccc aggctagtct 300
cgaactcctg ggctgcagcg atccttctgc ctgggcctcc caaagtgctg ggattaccag 360
tgaacctcca taccagcccc aaatatgcat tcttggaatt atctgcaatt gcccaanaat 420
gtacaagcaa ctctgagaa taaaccanaa aagataagaa actccatgaa naaaatgggc 480
aatgcncagg aaaggaaacc aaaaagntaa 510

<210> 7794

<211> 512

<212> DNA

<213> Homo sapiens

<400> 7794

gtttaaaaa atattttaat aagcatattc agaatggcag acaagggaat gggagaaggg 60
aattatttta cagtgcacaa ttactatgca taaatttaac atctaatttg aaattttaaa 120

tgcctattta aatattactt caaatacatt ttaaagctca acaaacttgt gttgaactga 180
 attgcagatc ctgaactcta ttgaaaata catcatgaaa cagaaaatac ccattccaaa 240
 tgaaaatgat agtgctttgt tgggggtggg aatgangcgg ggagactaaa tcactattaa 300
 cagacttctt ttcccaatgc aatttgtcaa aagttccaaa gttctgaaat gtactaaatc 360
 ttaagcaaat taaattcatg atattactaa aactttttta atagtgaat gacttatcaa 420
 gttatagtgg ctgcttaaga acaaattntt gtgttgaaat acctgcntaa accacaaaat 480
 tccttnaaat nttcctttac aanaagctga ac 512

<210> 7795

<211> 537

<212> DNA

<213> Homo sapiens

<400> 7795

ctggtttaaa tagtatctat actgataaca atagcaacaa tcaataacaa agtattaagc 60
 ttgacaaca ctatgtatgt tattgtatta aatcctcctg tcacccgcct tgagctgggt 120
 gttctctctt ttgatagctg anaaagctga ggctgagggc gatgaaattc acatggccag 180
 tgggagccag gatggactca gggtgcccat gagaccatgc cgtcattcag gctacactgt 240
 tctgaactca cgtgaccaag atgtgacaga ggctggattc cacgtccctg gcacactcca 300
 aganggattc aaggttaaaa tacaacttga tacttttaaat ggagaaactc cccacagtat 360
 gtttggtacc atctgaattc aangtcacat ttccagctct tgccctgggt ttgaaatcta 420
 ttggtttatt tcaatacatc acccctgtgg aaaaaacttg tctcaccaaa tntacntttt 480
 cctggcccgt tttcctgggc nccncttcca ggtttaacttt ggaaaaccct gaaggnt 537

<210> 7796

<211> 579

<212> DNA

<213> Homo sapiens

<400> 7796

```

agtagaagat tcttttattt taaaaaaaaat tacacgtggt tctacaataa tttttccttt 60
taaaaagctt caagatatac agggagatgc actagtccaa gaaatccagc ttgtccttta 120
acaaattata cagtttaact ttcttcacat attgccacaa tagttaattc acagtataat 180
cttatttgta tttggaaaag aanaaataaa tatacaataa ttgaaatagg ttcaagaatc 240
aagctcgatt tgtttccaag acttggaaga acttcttttg tactgttcca gttccagatc 300
cttctgaatt ctcactcat cgacttcatt ttcagcatat tgaggatctc tcgcagggtc 360
cttgatatct ttcagcgtgt taatactctt tgggtggaaag agcttttcat acactttttt 420
ccacaactcc ataggtgagt gggcatgaac tttccaatgt cattttcagg aacaggaaga 480
natectattt gaccgaaaga atccatcccg ctgtgataaa cancngtttt tccgaccccc 540
cntttgaatt gcttttggtc atgccaatgn cacttggtg 579

```

<210> 7797

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7797

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cagatctgta agttttattg ctcaatgtnc gacagctaca taatgactca cattcntgat 60
attccatcac tgaggaaact gctaaagatg gtccgtgtgt gaaataattc cttanagaaa 120
cacggagctg gaaaaataat cactgattag accttaaaaa tagttcactg cataacatga 180
caaaaagcac aaaggctcat tcagagaaca tatttgttgt tctccaacac tgtaatagtt 240
ataatttcac catgacaaac accagacatt nagattaagc taacactggt gtttcttttg 300
ctccccccct tttaaaaaca aaatatataa ctgcatgtcn ctatagcaac atccaaaaca 360
gatcaatttg ttncaatcac tatttggtag agcaaacttt accccnaaa gganaaatta 420
aattnaaaaa aaaaaacctt taaaaaattg aaaacttaat tttttttgt cctaggaata 480
ccttaccctt ccggtttaat ttatccattt ccanccttg ttttaaaatn ccccttgcc 540
tgccccattt tgnttcctt aaattntggg ggant 575

```


<210> 7798

<211> 516

<212> DNA

<213> Homo sapiens

<400> 7798

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agatgctgca taatagttta ttaacaaagc tcaaagttta cagaaataac attaaatgca   60
acactttttg attattaaca catgtacaat tttacactgc aaaacaattg caactaaaag  120
tttaggaggt aaagaattag cacacttgga agtctgtata catttaatac aaatttgcaa  180
gatatcagaa tgatctctcc tgaaaattca actttccttg tgtatatata tgcaaagaga  240
tacctatatt ttaaaaaaga gagctacctg tatgtcatgc atcccatcca aaacatgtca  300
caatatttta tatatattac atagtattta caacaaagcc ccttccatag tatttacaat  360
aaagctcctt ccaaaatcac caanganctt ctttccagaa tagcaagtgc tttcaagtta  420
ctgtaccaag tattctcact aatacagtan tgtatctaaa tgggggaagg tggggggant  480
ncantgccta atattagtta ctgaatttcc anatta                               516
    
```

<210> 7799

<211> 257

<212> DNA

<213> Homo sapiens

<400> 7799

```

attttgcctt ttgtaacatt gttttatctg gttttccata tcaaaagtct gtaaactttg   60
cattaacact ataatctaca atagtagctt tataagcatt tgaaatagaa tgaaatagta  120
attcnagtct gatattactg ggttggtcca cacatagtta aataagatcg atccttccaa  180
aaatctaagg gtaggctagt tgtggtgatt catgcctgta atcccagcac tttgggaagn  240
ccaagnnggn tgantcc                               257
    
```

<210> 7800

<211> 601

<212> DNA

<213> Homo sapiens

<400> 7800

```

ctgaaagtgt ctgatttatt ttcaaaataa attatatctt gattcctttc aggttcatgt   60
ggcaccggtc aggcctgcctc aaatgctatc acgattcaag gtttgggggtg agtttccatg  120
atcagtgtcc tcgtccagca ttagagaatt gtgcctcctc catctagagg tctgcaganc  180
cacacagtct gcaggacaag cagggacact gcccangtct ccccgggcca cctactccan  240
ggctgggtctg aaaaaacctg aagggcaagg gcttccgtcc ctctgggctg aaaatctaag  300
ggtgcagtgc tggtttgctt cctgggctcc aaccccgga ntaggtgang ctcgtaaga  360
atgcctcct gagcgtctct tctgaacttg ctgtctgcca tcttcccacc accccatccc  420
gcttggcctg ggaacgggaa gantccattg tggccttggn cggctcccn caatgctaag  480
ncctcaactg gtgttcgttc tgtaatnaa acccttgcct gctgtctccc actctccgtg  540
ctccccaagg gcaaggctct tctgnccnc ttcttttccc atgcattcat gggccaaaac  600
n                                                                           601

```

<210> 7801

<211> 252

<212> DNA

<213> Homo sapiens

<400> 7801

```

gacggagttt ggctctgtca ctccagctgg agtgcagtgg cgtgatcttg gctcactaca   60
agttccgact gcctggttca agcgattctc ctgcctcagc ctcccaggta gctggaacta  120
caggcacgca ccaccagcc cagctaattt ttgtattttt agtaaanatg angtttcacc  180
atgttggcca ggatggtctc catctcctga actcatgac caccntccc nggcccccca  240
aantttggga at                                                                           252

```

<210> 7802

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7802

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ccttctcctc ttttttggtc aatagctggc aacaatgtga acaatgcatt aaagtacttt 60
ttaaacaat gcaatttact cggaaattct aatatctcca cttttctttg agaataatca 120
actttgaaat aagatccatc ataaatgtta gcctattaga gaaaagatgc tgtaaataat 180
cagttttacc tcaaaatcat gctcaatatt tttttttcct gaaagaaaat tgcccaattt 240
tgcttgactt gaaataatta aattaggaga aaaccaaggg tctattagta tatatcttat 300
cttttatgaa atgacttaat aaaaataatg tatacgttaa aaacaacaac cgaaaatact 360
ctacatataa taagagaaca ctaggaagaa aaaaatacca cgtgtacttt atttttagagt 420
aatgaacttt aaagctaaaa aagccataga atatcctnct atgttaaccc caaatgttgg 480
tcttgtccta ngctctccac cancgaaata cttgcgataa aattttagtn ccntgggggt 540
aacctttccc gttttt 556
```

<210> 7803

<211> 237

<212> DNA

<213> Homo sapiens

<400> 7803

```
gnnnattttt taaaccatca ttactttttt ctttactttt ttttgcaaag atagttgtgc 60
tgccaagcaa cttgaggtta aggcatataa agggtttagac tacaanaaat gaaaacaana 120
caattgcgat acttctata ggagacgcac aaaaagcagt tggctggttt catattgcat 180
aatgatgctg tgttccttga tgaaataaac aatcttcnt gtgttnacat naggann 237
```

<210> 7804

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7804

```

aatttnaata catttatatt tgtgtgattc ttaataaaaac actttcaaaa cattctgtac   60
atttcaagcc actcagaanc gcattacatt tctacaaatg tgntttgttg ggatgaggtag 120
ccaagatgtc tctgtacaaa gatgtacaat atgtacaatc actgtaagtg caagctgtgc 180
aaagcagant ctagaacact aattcatgcc aaggcttaca aaaacatttc aacacataag 240
actaaagctt gaaacagcgt tgtggttttt tccctgggca aatgattatt ttataaacia 300
gtatatgtat atgtcataca gaaagaaaaa ttggactcct cagctcagtc agtaccatgc 360
agctgactgg atacattaca nggctgctct cctangcctc tttcttcaag gcgccatttt 420
gccacactca acagttgtct catcactgag tggctgccac tgctgccttt ggntgaacca 480
cagcaacnct aggaaactta anttncggga aataaaggca aattggtttc ccatgccgca 540
acttgntg                                     548

```

<210> 7805

<211> 335

<212> DNA

<213> Homo sapiens

<400> 7805

```

catttnttaa aattttatta ctgtttacca atggggagat gcagtttatt tacaccagca   60
gccatagggg aaaggggaat acanttaatc agctatctgt ataggatgga ctacttatgc 120
naaaataaaa atctccaaaa caaangacag tgggtgagctt cactaccctc ccccgatgat 180
cccagcatgc gataatgcca ngcantggtc cctgggcatg cgatgggtggg aactaatgtn 240
tggaanaaaa agccacaaaac cacagaaatt ttaaagaacc ccccccttcc ccataaacac 300
acacattcca cacacacncl ctcnattctt ttata                                     335

```

<210> 7806

<211> 108

<212> DNA

<213> Homo sapiens

<400> 7806

cctggaactg catccattga acatttattt gtcaaaggcc tggctctgtgc caggcagcat 60
gtggaggcac tgaatggggg gtggaggggg ttgtncngng ggaatcaa 108

<210> 7807

<211> 312

<212> DNA

<213> Homo sapiens

<400> 7807

gggccttcca atattatgag gttattttga ggatccaggg aggtaacgga tgtgaaaaac 60
gtgtggtgaa ctgtaaataa tgactatcac atttagttct cccacaatcc agtgaggant 120
aatcacttac tcgaggtcac ccagcgctgg caactgctgg agctgggatt tgaaccanc 180
tagcagtgtc catgctacaa aaatggggcc agccttggca caggangttg attgctgcag 240
ccagtgtttc tanaattcca aatatgaagt ggtctcatgt tctccttggg angaagccct 300
tggtttcccc aa 312

<210> 7808

<211> 478

<212> DNA

<213> Homo sapiens

<400> 7808

gatcaataaa tcaatttatt taaaagaata tgttacaatt aattacacta agtgacatta 60

ccaaacaatt ttagagtggg tagctctaga acaaggaatg aaagaaacaa tgtagccat 120
 tattgtgtct gtgtatttnc tcttcacatt tcttanatca caaataaaaa aatacaagat 180
 actgcagtga aaatacaatt agagtttctc tgaaataaat taaatgtgca tggcctggga 240
 aaaactgaan cccanctcac tggcttaaaa ggggggtcatg atataaaatt aatgtccaag 300
 tttagcaggc ggccaagtgc cccaccccg taccactccc ctctttgatt ctattcctta 360
 ccacagccct gaccttccca cataccctan attattgctg angantgagc tgatgctgtc 420
 ctggcaacaa aaaagcctgn cgtgatntgc tcaggtttag gggaacagga attcaaaa 478

<210> 7809

<211> 269

<212> DNA

<213> Homo sapiens

<400> 7809

ccagtgtat tatatatitc aaacattact tgtttgcata ataaccaaact actgagacag 60
 caggcatcag antgcatga agtacaacac aactcccact tccatgcttg aanagctttg 120
 tgagagctgt gcctgttgag gcaggggacg tgtactgtgg actccaggaa tgacacaatg 180
 ttagccggca gacacctcaa agttcctctg atcccnacaa actgggaaat ggggtgggtg 240
 antggaanga gctttctcaa natcaacna 269

<210> 7810

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7810

cacagtggac aggaaaattt tactactgaa tactggaaaa taaatcaagg atacctctta 60
 atatcttgat ctcttaagc tggcaanact ggaatacaag ttttaatgaa tagcagcaca 120
 aaatcacttg caactcttac attctggcat tgggtaccac ataagtaaag ttcattcattt 180

tgatgggtcaa aggagcctcg attctattcc tctttcaaag ctgaacccaa tggactcctg 240
 tgggaaatag tattgtctct cgttcgggtca tgcttaatgt aaacaactcc atagcacaaa 300
 aagatgcaat gggcacctaa acaaatccta gtgggtacag aacacacaca cacacacnca 360
 cacncacaca cacncacgca cacacacaac aagtttggtg gtggcatgaa aaanatgcc 420
 cncatgaaaa aaaaatgcta cacttgggtc aaaaatgaat ttaaccaac tgcttggtaa 480
 tctacaattc cattctttga aaatttanca ncttttttg aaatttggtg caaaagcaag 540
 gtnatcttcc tnttaaant tc 562

<210> 7811

<211> 533

<212> DNA

<213> Homo sapiens

<400> 7811

aactattcaa aaacatgtat ttatttagaa caatagaaat acgtgttctc agactgtcct 60
 ctanagtttt tgagactatt agttcaagag tttcaaagta tattacttgt aaaaacaata 120
 ctgattaaaa aaattttttt taacaaaaaa acagaaatct gatttgatgg taccttgaaa 180
 ataccctaaa taccaaattt tctccaacct aacattacag ctaatttaag aattcctcct 240
 tcattggtaa aacatttttt cctcattaaa tgtgggtact gaaattggat agaaacacta 300
 tgaatgtgaa aataccacca attttctgca gtaaaaaaaaa aaacccaaa aaacaaaaaa 360
 acnaacaaaa aacctagaat gttctttgga atcactgaaa tatcaciaac ttgggttttt 420
 tcttacagtc tgtgcacctn ctncaggtt ctctgtttng ctgtattac tgaacgggtg 480
 gatcctaatt ttatanatcc agtcttgcac ncaatatact gctggacacc cgg 533

<210> 7812

<211> 495

<212> DNA

<213> Homo sapiens

<400> 7812

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aattntntaaa agttttgttt tgtttaatga aacacagtat aagaaactag aaaatattac 60
agagaactat gcatactgat gctaagtict gttttatttc atatacatgt ccattttata 120
tcacaaacca gtaaaaacat acaaattgat aaatgtataa acacattgca cataggtgta 180
tacatgtggt atgttgggtc ataatgtata ttgggtcata atgtaagctc ttccaggaaa 240
gcttcctggt ccctcatatc tcccaacctc caaanataat gaagcattct ctcactgtct 300
aggactgaac catgttaatg cttctatcat tgctttaatt ctgtatttgt gcttcctaca 360
agaccataaa cttctaacac tgtactaggc atttttccta ctacttgata tgtacgatct 420
catttaattc tcacaactcc tgttttccgg ggtgggtttn gggttnaaat ttgccttggt 480
gaacanctgg aatnn 495
```

<210> 7813

<211> 510

<212> DNA

<213> Homo sapiens

<400> 7813

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catctcactt tttccagatt tttttttat tcagtacaga tgcaaagtag tagctcanag 60
gctctgggta atagcattcc tganattgat gacatccatt acctcactag tccaacttct 120
ccagactaac gcanactttt ctcttcctt ggcctttcct ctctcgcca ttgggccaat 180
tccttcgatt tctcatttcc ctgaagtta gggccattca cagtttcatg gtcaaagcca 240
gttccagggt caatagtctg tgatttatcc aggctctgag gtatgcaccg cttctgtttt 300
gctcgttcct ccaanagcta gtttgGCCan aaaggggatg ctttatacca tanaacacat 360
ccaccttcta gaactgctct aaaaggncag gccctcanat tccacatggt tgganttctg 420
gccaatctg ganctttctt cacactcggc tctcaaaact ctngggttca aaaaaaatt 480
aacatggtga naaaaaaana ttttctaaac 510
```

<210> 7814

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7814

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catatttgat tttttattac caatcaaaaa taaattccat atatcgttta gcaaatatca 60
ttgttttgtg acaaaagaca caagagtcac aacaacaaaa ctccccgana gtcaaactca 120
taacgccaaa ataaatcaca aaaatataca aattaaaata ttatgcaaaa taaatacggc 180
ggctgtcacc tgcctaccca tttggatgcc ctttgcaaag gtctccctta cgtggaaaac 240
acagtgggtg ggccagttcc agggatatggc tcatcccagg aaccagaggt tgaaatagga 300
agggaaaaat tgcactggga agaggaagtc atcanacaaa caatatttgg aaataatgat 360
gaccctctgt gagaagggat gatcaatggg ccacgggaaa aagangaagg ccaccantt 420
ggtggttaacc gtgtgcaaaa agtcactgtg gaagtntttt cacctgcccc ttgcttcnc 480
ataccccccc caatgttctt ttgctctacc tggccatcca gggctgtcag gaatattact 540
cctgccnct tcccaaaaag gaanttggga aaacaantcg cncn 585

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<210> 7815

<211> 578

<212> DNA

<213> Homo sapiens

<400> 7815

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gtttttttga attccagaac ttctttattg tacataaaaa tctgaatttc ttaatatgga 60
aaccaaaggt ctgcaaaatg tactctccta gtcaggatc attatttatt cctcttattt 120
ttggaatcta ttcttctttt attcaaggac caactcaaag gtcagctttt agttaactct 180
tatatcccca tacacatata ctaaaggcan anttaactgc tatatccaag ctacttcttg 240
gcatatcctt gtcacctaaa ataacagaan agggagactc tctgaaaaga aaaatgatgt 300
tttattcagg aagtaggcat tgcaatnaga aatacaagtg ccacagttaa actatgtgca 360
tatacaggga agtcaaggaa gacaacggtt tttaaagcaa aaatgattgt ttgaaaaaa 420
attatccttg gctacaagga tcataacaag gatgttgcca nttggacatt ggacaggga 480

```

ttgctgggca aattttcncn taaaaatfff tttgtttttt ttcaggtngt gaaggccttg 540
ttcaaggfff ggtttgggtca anctttaatg aaancccc 578

<210> 7816

<211> 308

<212> DNA

<213> Homo sapiens

<400> 7816

atttagagct tagttcaagt ttccaaacaa gaatttatfc tttctttttt aatctttttt 60
tctaaaaaaa agtaccaggt acaatttttt cctgtttttg atttgctttg ttttttcaag 120
tttcagcaaa tgcttgttcc cctcagccca gccccaggaa ttaggactga ggctgggtca 180
gantctggan tggggaatgg ggtagtttg aaccacatga ctgagtttga ggggtgcccc 240
tcaccccanc tgaggtaggt gggtcagaat ctggccnggt gagangangc nccccactgc 300
ttggccct 308

<210> 7817

<211> 211

<212> DNA

<213> Homo sapiens

<400> 7817

aggaaaatag gccaaagcctg ttataggctt ttgatcatc tccagactgg caggaaaana 60
atgcatactc aactgttaag tgcctgattt gatttgcana ngatatagaa ccttatcaga 120
aaacaacctt ccaaggnaan aacaaatgca tcctatctta gcacagcttt tctccaattc 180
ttctttacct aagganatga atnnctgcca g 211

<210> 7818

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7818

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aaaaacagaa ctgtgcaatg agaatgcttt aatcatcacc cacacagacg agcggaagct   60
acagacagag aaccactacg gatgggtgcct ggaacanagg tgagaatggc ccaaaactct  120
gcctccggga aaggtgccaa gtttacagga cttatcgtgg tgccctcacc agaccctcc   180
tcctcctcct cctcncctc ctcctcctcc tccgtggccg ctggcggctc ctgcatctcc  240
tctggggaag cctgangccg gctcgggtaa cttctgctgc ctgagacagt cacacgtgct  300
tgggacctct cacctgaggt ctctgggtgc tgaactggan tggangtact aggcgtggga  360
aaaaaatgtg gtcacctgtt gtcattctct tcaaagtcct taaggcagta cacttcgtcc  420
aggtcaacat ccancgtccg gaaacccttg gtgaccacac caangcngg gggttcaggat  480
nccccaaggt gaggttgggc cacttgctgc cantggtgaa atttggcaaa aacttcccac  540
cggttnccca at                                     552

```

<210> 7819

<211> 352

<212> DNA

<213> Homo sapiens

<400> 7819

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agtcataatt cttttttatt gctcttttaa aacaacagct tggctgagcc gcggatgcca   60
tgaacagttc agggcctcgg cgtcatttta tctcctcctt attcctttcc tttctagcat  120
aagagccctg aaagaggcgt tttgagccaa nagaaccgct tgtaggcgat ctttttaagc  180
gtaaccaagc tcgcctttca cccagtctcc caaggcgttg aaagagacca gctccagtct  240
tggggcgctg acctacttgc ctananggcc aaggatctcc tactcggtgg aacggccccc  300
aaaatttctt gggggaaggg ttttggggaa anaactganc tacanaacct aa          352

```

<210> 7820

<211> 581

<212> DNA

<213> Homo sapiens

<400> 7820

```

aagcattttc caccatttac tcttggtatc aaaaatagtt caactcttct tgcaaaacaa   60
aaacaaaata gtacatactg gacacatcac atttttcttc ctatggcttt agcccacccc  120
caccaccacca aaagagacca aaaaaaaaaa agaaaaaaaaa gcccaacaac aacaacaaaa  180
acaactctac ctgaccacat tcacagaaaa tgacaccagg atacactaca aaacagaagg  240
aggtgtcatc tgctctgtgt ccaaagggtt cttctccatg tcttgacta ggcgagtaac  300
catcattgaa catgctgtgt gccaaatcaa aacataactt cagcatatgt cagatcttac  360
tagagatggg gaacgtanta naaattggaa attttccagc agtatcttc tttaaataag  420
cactgtcaaa gctgcagctc ttcttttaaa tcacaggtta tttcattaca cctaagtcag  480
tccttgtttt atttgggctg gtgctcttcc cagccactga atanaattcc cctcnacaaa  540
atgtttggga aacncttgct ttcccctan aaaattaccg g                               581

```

<210> 7821

<211> 400

<212> DNA

<213> Homo sapiens

<400> 7821

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ctgaggattt cctgtattta ttaagttaca agttggtagg cacagcttga gcaacatana   60
aaagtaatct tcttgagtta tacaatcatt taaattccaa agcactcaca aaattgagca  120
aacaagcca ctatttgcatt atttgggaaa ggaaacatat tgctaattga agccacagga  180
ctggtcaaaa ataaatgttt tgtattaagt antaaaataa atggagaatt ctaccccaaa  240
gcctccacct cagtgaanac ctgcgggtta ttgcagctgc aagggaagct acagcacagt  300
cgtctcanaa taaacagcag cctggaaagc anatgttttc ncaggatcnc aaggccctcc  360
naccaccaat agcctctgct ctccagnaac agttgaanaa                               400

```

<210> 7822

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7822

```

ganatggagt ttcgctgttg ttgccaggc tggagtgcaa tggtgcaatc tcagctcatc   60
gcaacctctg cctcccaggt tcaagcgatt ctctacctc agcctcccga gtagctggga   120
ttacaggcat gtgccaccac atccagctaa ctttgtatct tgagtaaana tgggggtttct   180
ccatgttggc caggctgggc tcgaactcca gaactcanat gatcctcccc cttggcctcc   240
caaagtgctg ggattgcagg tgcagccac catgcccggc ctctctgtc acttttatag   300
ccatcctctg ctgagaggaa agagctgaca cctctctgcc cagtctcgag gccccagtcc   360
acactgtcta caactatcta cagccatctt catacctaata gccaaaagaa gctccccaca   420
ttaattaacc ctggagtgat cnctctaaat tgggcgttcc ccttnaaaac aagaaaccn   480
nnnnnnnnnn aaattatttc agggccatcc tcccctccca ccaattccca caatgnagga   540
aactctccn                                     550

```

<210> 7823

<211> 519

<212> DNA

<213> Homo sapiens

<400> 7823

```

agagtagact ttataaaact ccagaggatt ttcccaatta acactaaaac ctccaaaaac   60
ctgtcagana tacaattatt ctctatttta gcttcttata aaaatataaa aagctgagca   120
aaaaaaccac aaccaatta taaagtcaat atacaaaatg tattctatct ttaaaatggc   180
acagaatgag aaaaaattct tcatgctgat aagtgcctca ttcccaaaca gggacttcaa   240
attgatcaga ttctcttgca ggcaaaagct ttgcagcagt ctgcatttac tggaatattg   300

```

ctctctgaac acggccacat tcaggtttgt taaatatatc ctcttccgct tctggagtta 360
gttggatggt atctccgact ggggacaggg gtttcttaca aggaagaagc ttttcagaat 420
cttttttaaa tccaaagttt ttccaganc t cattganttt gatctgttac ccngnttgt 480
tctccgcatt atgangcttt ctctcnnga atgcttggc 519

<210> 7824

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7824

cccttaaana aagcacttta ttttccattt aaacaacttg gtcacaggac gttatitttac 60
ataaatggaa gtaatttgta aaatttccat gtnaaaggcc ttgtgtctga gtctgaggtg 120
ataagaggat atgaatacaa gtatataaaa acagtgc aaa atgtgcagcc cacagcctcc 180
ggagttggct tcanaaatcc cccttaatgt tgctagacca gttacattaa atattaaatg 240
taacaccagg taaatatattcc tgggtttcct ttagtctaac atccaacca natatgcaat 300
aaaatgaaaa actcaaaatc cctaacaact caaaccatcc aatcaccag accattagga 360
tcacaatgag ttgagactgc aggctctata ctgtgacatc tcgtcagtgg ctccatctta 420
agaaatacag aatttttagtt gcatcagtaa ctaaaataaa ctaactctgc ttttaaagct 480
ttggctttta aatgtttaat tcnanaaatt tcccttccag ggccnccca aaaggggggg 540
ccctaaaaaa ttccaacccc ccccn 565

<210> 7825

<211> 571

<212> DNA

<213> Homo sapiens

<400> 7825

ccaaaattca ttttttagtat ttctgtaccc aaaccccccg atgaanaaac agcacatggc 60

acacagcanc ctggcccagg gctaaggtga ggcgtgaacc cgcccanggc taaggtgagg 120
 cgtgaacctg gccagggct aaagtgaggc atgctttcat taatcccgtc agganccttt 180
 ggctcctctg tgactgcaaa tcatttgac ccacctgcga ntctctcctt ctcaggatgc 240
 accctcatga tacatggagc aaacacaata agccctgac tcatggggct gcttggaac 300
 gggctgaggt atcgaccccc nagtcacaag ctgcgggaa ntgcaggcgc ccatgaccca 360
 gtgccagcat gctctaattg tgtggggatt ttgcataaca taaggtgaaa ctgtgaacaa 420
 aaaaagggcc tgttggttc tctgcatctt taaggactgg gcctggcccc tgactgcttc 480
 caggaaaaag cacattccct ggggaccana aaaatctctt aaaaacctcc cccccagggt 540
 ttaaacttt tccggtcttt nttccatggt c 571

<210> 7826

<211> 594

<212> DNA

<213> Homo sapiens

<400> 7826

aataatatta ttatTTTTca gctgagtctg ggtctcactc cgtcgcccag gctggaatgc 60
 agtggcatga tcacagctca ctgcgccctc caactcctgg gctcaagtga ttctcctgcc 120
 ccagcctccc gagtagctgg gactacaggc ttgcgccacc atgcccggct tatagggcac 180
 tttagatgga aacaaatgac tggatcttta actcctacct ttctctctc tcttctgtga 240
 atgttggtac tgaaggcagg aaggagact ccttggttaa agagcaganc aagagcctca 300
 aagtgtctt tgtgagccac cctggactac tggttcggta nanggttgag tcaagcaata 360
 tttgaggacg ggatataaac agtatttctt aaagttgtca ccaatttttc ccccgatgag 420
 gccattccag acccaaatta gtcataacag anccaggaca ataatcacat ctcttgattc 480
 tgaacctgaa tgcttcccc aggaatgggt tcttccccctg gtctgaaggt ccattgttgg 540
 gggaaaattt cccctgggaa tccccccan ggcctgggga acaaaccncc caaa 594

<210> 7827

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7827

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gtaagtttgt ctggtttatt tgcaggctgt agagatgata tcccagtcca cgcacactcc 60
catgcacacg cacacacata cttcatccac ctgaatttgc ccgacaaacc ctctcttgag 120
tcatagggga caaagccata ctgggcagtc ctcacgttac tggttacatt agatttggtc 180
tttcagaaag aagatgggtg aagtcceaag aagctgagcc cttagccaga gaagtnagag 240
tcctagaacc aagagccaca acctgaaata gatgttnact gccccgccc tccttccagg 300
gacaactctt gagaccctct cctcccagga gttgagtctc aagaaatgaa gggactgatg 360
gggtttccca ggacacacga gccccaccc ccattcaatg agaaaacctc tcttctgcca 420
tttccagaan ctgggggcac acctgcttgc tctcctccct taaggaaaat tcctgcatct 480
tgtttaaagt tggaacttat gaaataaccc gantgggtctg cctccncnct gantnaggaa 540
aagggacctn aatttnatgg ttttc 565

```

<210> 7828

<211> 600

<212> DNA

<213> Homo sapiens

<400> 7828

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actgaagagg acaagatggg aaggacattt ttattttccc taatcttcag gcaacctcac 60
caagctggag gtcacatgta gctgagtgtg aaaccaagaa aaatacgaag cttcaaaagt 120
actgtgcgtt gtattttctt attctctggc aggctgggag tccaaggta gtctangcag 180
gagggtgctt tggcctaagc agtcacacaa ttttcaccgt cttgagcata tctgacaana 240
catacntgtc atcccaaccc ctcccaggct tccccagggt ccgctccaaa gcctgggctg 300
tttctaggan ctctggtgtg gcaagttttt gctcagggtg cagctgacan aacaggatct 360
cattcacttc acctcaatt cgccagacat ataggagggg gaacactgcc ttgagcccag 420
ccagcactga ntcttttagc cccaagtctc ggcacacaag gttgaaaaat aaaaacacct 480

```


tcaggantca agatgctttt aaccttctgt taaaaaaaaat gctccccaaa tgctnggggg 540
cgganaactc attccccaaa attgggttcc taatgttcac atcaacttta tnanatcctn 600

<210> 7829

<211> 580

<212> DNA

<213> Homo sapiens

<400> 7829

aaaacaagaa agactaaaat gtggtaagaa atcagtcttg tgcattttgt acatttgtgt 60
cctccactct gtcttcattt actgtctccag gaagctgatg ccacagctgg ccacagtga 120
acaaanacat cagaaggcca gttagtctct accacanaag cccccaagtg aaccgaattc 180
tgaagggcag gtctcagtgt cccttaactt tgttctcccc agnaaaaatc cattttgctg 240
ccaaatgtga ccagcaaact tgggcaggta catctagcac aatcacantc ctgtcacact 300
gccaacgtgg cccaaggcat ggcgtgcagg gcantctctc tggagggcct ctgctatgcc 360
tgctcaccag caccacctcc accaacagcg gaacccttgc tggatgcctg ggcactctgaa 420
gaacgggaag cctgcttcgg caggcggatg gggacatana ttttgaanc acantgctcc 480
ttgaagtacc tcctcccttt ctctctacnc ctcccnggt gatccaaact ccnttaacac 540
ctaggtggtt canggcccat tccaaacacc gttcaagcan 580

<210> 7830

<211> 486

<212> DNA

<213> Homo sapiens

<400> 7830

ccaaaatcta aaaaaaacct ttattcccaa canacctctc attctacttc ccccaggtaa 60
ctccttagcc acacattant tttttganac cgtgtctcgc tctgtanccc aggctggant 120
gcagtggcat catcttggcc tactgcaatc tccatctcct gggttcaagc nattctcctg 180

tctcagcctc cegantaacc gggactacag gcatgcacca ccacgcctgg ctaattttta 240
 tatttttagt tnaaatgggg tttcatttca ccatnttggt caggctggtc tcaaacttct 300
 gacctcaggt gatccactca ccttggcctc ccaaaatgct gggattacag gtgtgagcca 360
 ctgcacccgg ccccttatcc acaaatttgg gattgaacta caggcnnaan gattgaaaat 420
 ntntccttcc nccttcccct atactcatgc cactctctgc ccaactttct cttggnccca 480
 taattc 486

<210> 7831

<211> 356

<212> DNA

<213> Homo sapiens

<400> 7831

acaatataac caagggagtt tatttcagga atgcaaagct aacgcaatat accaaaattg 60
 agcaccacag taacagactg aagaagaaaa atcgcnataa tnttagttgt ggcaaaaaaa 120
 tcatttgaca aaattcaaca gccattcatc gtaataactc tcagaaaagc aggaacagag 180
 aggaatatcn tcaatttgat aatggacatg tnttaaaaca ctacagctaa catatttaat 240
 gatgtnagac tgaatgcttt ctccctaaggc tgggaacaag acaaggatgt ctgctctcac 300
 cactcttggt cagcatagta ctagaagtnc tagccagtgt nttatgcca cnnnnn 356

<210> 7832

<211> 511

<212> DNA

<213> Homo sapiens

<400> 7832

cctattttgt acccttgnaa atttattagt ttattctgag gatacaaata acatttatat 60
 atgcacacat gagccatctt aatatttcca tttagttcan aatttcaaaa atatcaatcg 120
 atccttgaac tttcaagtat agaaatgagt ttagggtaaa atagtaacct ttgaaataat 180

tacagtactg tattagattt gtcttttctt ttanttgctt aacttcatga actcatttgt 240
 ttttttcttt tnaattttta ttaatctact ttttccaatc cccaatgtga ttaaattcag 300
 aagaacagta tctttcaagt aaatgatgca aaacttcctt tcacatcatc tcacgtcctt 360
 tccccctttg tattagtaga taattatact atctacagcc agaacgatct tcctanacgt 420
 gatcatgcta tgtgctatga aaaaaacctn caatggggga actccnctac cgaaatgatg 480
 tggttntnct gggcagtcgc tcccangtgn c 511

<210> 7833

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7833

aaagggtttt aaatagaaac tttattttaa taaatgaact cttctcaacc ccaaaaccca 60
 gcttctgac ttgactaagt tcataattac tcagggaata acactgctgg ttccttataa 120
 gccactgtgc tgtacgaaat caattcatga aaaggaaacg ccctatttcc aagcatacct 180
 gtactagaat atattaagta tattcactta acatattaat ttaaattgta atgttagtct 240
 aaatgttaaa ttaatttaat atgttaaact taatacgttt atttaatttt tacttaatac 300
 cattactgga acatattaag cattttttcg gcttaaaaaa aacaaaaaaa caaaaaaaa 360
 ccctgaattt acagaactaa aattatgaga ggagatcgca ttacaaaatc tncctctatg 420
 ggttcttcta gctcaaaaana ttttctact gattttaact actgaatttg gngttattat 480
 ttanaaaaaa acccggaag gtgccactgt tgaaancnnt gtttttagga attcttacct 540
 catgaatttc ttttccggga aaaaanactn 570

<210> 7834

<211> 416

<212> DNA

<213> Homo sapiens

<400> 7834

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gcagacaaaa agtggtttat ttagcaccca ctatgtacca ggcacttggg aggtattttc 60
tcacactttc gctttccatc ctcacaatat cccttatgag gtagggacta ccctcatttt 120
tacaggtgag ggaactgagg cttagatgtt gacagaccca tccaaggtga cccagctggt 180
aatggtagac ttcatcctgc tacacagtat ttaaggggcc taaaccataa acaattttta 240
aaaatttggg aaagtcacac ataaaggaga tgtttcaata ctttctctct ccaggtatga 300
acagtattga gcaagaccca cagggcagca ataatcattt atcctgatga aaggttcctc 360
tgtgaaaggt aaggggggtg ggggagacct aaagccttct gcagacccan nnnnnn 416
```

<210> 7835

<211> 366

<212> DNA

<213> Homo sapiens

<400> 7835

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gatgttgaga naacatttat tccactcagt cagctcccgc aggagtcagc aacctgtaga 60
aatatccang ctggacgacc acttccgtgc actcctgcan aaccggggtg ggggtggggg 120
tccctgatgc tcccactgcc ccaaggaggt aagancctga ggctccgac atcnactttt 180
gacccanggg anccanccca catcccaaaa aaaggcaccc ttgagttaac tcacataccc 240
tctccccacg tgcactgccc attaccggcc accgacaatc tccancgctt gangcaccat 300
tcatccgaca agtgtttcct gaaagttang agcccnntcc tgtgctanac cctgggtang 360
actcaa 366
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<210> 7836

<211> 305

<212> DNA

<213> Homo sapiens

<400> 7836

catgaanagg atgggacctg tttggcccat gaattcaatt gactcattgg ccccatcaca 60
 aganatcagt gactcaatgc tcagcaccca actggcaatg tgcccagnac cccctgcact 120
 tcccaagcag tgagegcaca cccaatgggt nagcccatna acccacttin tnacactncg 180
 ttgggcaaaa ctctgtccc cagcactgaa catngcctaa gcccctatnc agctggcaag 240
 ggatccaatt gccctgcctg nctctanctc ccancattgc tactgtgccc gccannggta 300
 ctgaa 305

<210> 7837

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7837

catcttatga catattagtt tattacatgc ataaaactat aaatgataaa aatgaanaat 60
 gtaatgaaca gtttatgttt ttttaaaca aagtcagatt ttaaagttg tacacagaga 120
 gcaaaaatca ctttacgtac tcatgattgg ctttaatat tctttacact atacatactg 180
 aaaatgttta catttactaa taaggaatgc caagcgtatc catcaccatt tgaatagctt 240
 gcaggggatt tgtgatttct tccatgttat ctcttctcaa aaccaatct ggcttaagtc 300
 ttgaaactat tctggtcctt acaggtgttt ctgggataaa aggaatgctt atagaanaat 360
 tctcttttgc ttgtaaagta tctttcagta ttcattttat gtttatgaac tgtaagtttg 420
 tanaaactgt aaatacggcc acaactttgg gactactttn tacatcaaaa ggncnatttg 480
 ttgtctccct taaaaaaccc ccaacacnaa ttttggttna aatcncccc ccttttttggc 540
 actttttanc agct 554

<210> 7838

<211> 448

<212> DNA

<213> Homo sapiens

<400> 7838

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canaacactg ttaatatcca ggcaccattt gtccctgcaa ataaataagt ctctaaggta 60
actgcatctg aactagtgtt aaacacaaca gtgctttttt ttttttttaa tccccccaca 120
aagcttttcc aactatgtac tatgcctcct ttcttattgc tatggtaatg tggctgtgga 180
aataaaacta ctgtacatcc aaaaaaatan agcaccttta acattaaagt atatgtctga 240
ttatttgtnc tcatgtttat ttacaatac taaagcccaa actatggtaa attgctctac 300
atctctacca ggtcacctga tatacaggaa ataaaactca actatcttcc ctcttgaggt 360
aagcccaagc cananactg ttttagcana gtctaaaana aaaaggcttc aantgtcgcc 420
agggtttaca ttcatcttcn caccanga 448

```

<210> 7839

<211> 398

<212> DNA

<213> Homo sapiens

<400> 7839

```

gcggcttaaa catgtggcaa atgttgcttt aataaagtca cggaaggaca gagccctggt 60
ctggcccagg cccctggct ggcagccgga gaggtc aaa tcggaggctg tgcccatggc 120
agctgatcca ttcttgggga tcagcttcac cctcctgaaa ctgacctcag ctgcagaaac 180
agctaaaggg ttctcttag actcaaaatc tccccctctc cttctctgtc tctgaggcta 240
ggtacctttg gtttcaaaaa tgcattaggt ggggaggatg aaggcagcac cttcggtctg 300
agaactgcag gtctgcgagt gtctccattt ggggtgactg gtgaggacnt gtgttgantg 360
gccacttctg gtcttgccgg aacacttgca tagnnnnn 398

```

<210> 7840

<211> 535

<212> DNA

<213> Homo sapiens

<400> 7840

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tgacactgct ggtcacctgc aaggcctctg ggataggctg ggggtgcaaa aggaaactgg 120
ggccttgggg tccccagggg catggggang gaaataaata ataaacacca tgggggataa 180
ggaaccagga agaatggggg tntnaatggg gaagtgtcc atgcttattt gtggcactaa 240
aggtcttgca anatgcccc tgactggggg ccgtgtccat gaattctcna atgacctcac 300
tttgacaaa ggctcangca tctggggatg ggctgggtcc tancgtgaag ggggacagca 360
ntggcccaaa cccaacctgg aaaaaccanc actctgccct tccttttctt ttcttctgt 420
cttgcaacce acttgtcttg ggcccctact gttttnccaa tacaacacca ttcctgaact 480
gaacctcttt ttncctnttt ctgctcncac cccncccat tctgttcca ttngg 535
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<210> 7841

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7841

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caggcattaa ccanatttaa ttgtttttgg caggtaagta caggctctgg caganttacc 60
aactattctg gtcaacaaaa gtaaagacaa gtggataatt atttttagtg gagctttaaa 120
aacctgtgag aagctcacat tgactttttg gcctccagtc cacaaaataa tacttcattt 180
gataagctaa agtaaaganc aattttatgg attaactcta tcaaagtga gcacatgaaa 240
aatgggccta aagtcacaat atattaatca ggatataaaa aattaaattt tcacanaggt 300
tttcagggat gtttgtttgt taacaatgac ctatatgtaa taatgttatt tgttaataaa 360
ttcacacaac acaaagcagt aattaactaa tgaattttca tttttcttc cccaatatta 420
aaaagggata attatactat cattataatt tgataatgtc tatactgtct aattagggca 480
cataatatcc tacaactac tactataaaa tgtgggaaat ccnanaacta taattaatac 540
tgtaattaaa atccccccc 559
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<210> 7842

<211> 537

<212> DNA

<213> Homo sapiens

<400> 7842

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gtaggcattt actgataaaa cttccctggt gttaggggga tataaaggac acaaaaanaaa   60
cttcaactgc ctcacaatgt gaccaanaat tgatcatagg taactcttaa agatacccac   120
tctgtccaca aaaatggctt atcagcaact gtgttcctgc tatgtgactc taactccaca   180
gccacaactg gttggagcag gagtgaatat ctgattcaag ttgaatcana cctattatct   240
ctctcaagca ttgacctgan acaggattgg gagctgggag tgagtcattc tcaacagtgc   300
tattctggag ggtgtgtcca catactgcag ctgccacatg cccttgtaaa actggattgt   360
tcaacttcta natttcatga nctccactat ccttccaaaa atgtcactt tttcttaaac   420
attcttgaac ngatttctgt tntttttaac aatanaaatg ttattaacag aacaacaaat   480
tttgtttgaa aaaaaaatct ccctttctcc tcnneggttt ccattccgaa aanaaaa     537

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<210> 7843

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7843

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aggagtgttt ttgaaatatt gtttttcagt ttattgtatc accaccttgg aactagttga   60
cttcttacat atacacaaag ataggacctg cagcaacaac tcttatgaca tttttttcat   120
atcagccaca caatttacat aaatatgcaa aatgataccta gggtaactg gaataaaaaa   180
tattttgaaa tcttattgcc acatgtaact accaggttat tttttaagg agatgtgtag   240
gttgtaagcc tataagaaag gtacacgcag aatgcataca cagatacaga aaaacaagta   300
caattacaat agagacataa tacatacaat caacaagagc tctgcctgaa gcttctagca   360
acttatacat tttgggtaca cagtacattc agatatcact acttcacagg ttgaaaaaag   420
ctgtcttgan aaacactaat gcaaaagctt atgaagattt aatgaagaat ttaagttatg   480

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acncctttgt tnattaactg gcaggtgata aggnngcttg aaaaaacctg cnnccctgaa 540
tgaaatcccc caaataattt cccagga 567

<210> 7844

<211> 509

<212> DNA

<213> Homo sapiens

<400> 7844

aactaaggaa agcttttatt taaattgtgc aatcaatcag tatttaaaca gcagtttcat 60
aaacattttg gcatttaaac ttttattcat ttttggcatg acctataggg tagtatataa 120
actaccant ggggtggggg caantactaa gcaatattta ctatgatact agaaaaaaaa 180
aaacaaatct acattattaa acaaatatnt tttanaaaaa cattaaaaan atacattcna 240
aatcaaggca aacatttgct ttcttcgtgc aatggcattc acanaactga tcccctgagt 300
caagtntaaa attaatatag ctgagctcta cantccatta agcaagtcta caaatgctgc 360
ccttacaaaa aaatggtata cggagtgaag ggatncacaa caccataat acnaaataat 420
ttaactggct ccccncttc atttaattca catctttgaa naatatttaa anaaaaaatt 480
ctttcccccg acccaaattt tgcctacn 509

<210> 7845

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7845

aattagaaac aactatttta ttcagaaaag tataaacagt tagcaattag aatcttctta 60
tatacagaca taacttgcag aaggttaagt ctgaggacgc tgttctgggt aatttttaca 120
gtccttttta gctctaagat ccatgacact gcatttttat ggccaaaggg caatcaatta 180
tgcacctggt tgtctcaata ggcagtaaaa cctaataata ataatgaca aatcatctgc 240

cataaaaaaa tacgaaaaac ttttgaaatg ttaatttcaa ctccaatgaa acaaatacct 300
aattaaaaca attatttatt ccctgctaga atataaaggg aacaacaagc ttgagctgca 360
aggctcaagc tttgagagca cagaaagatt tttaaactaa taatgcattt taagtccaag 420
aaaatggagc cagcccataa tctcatgttg gaatnccctc aggcaaactg gaaaacncat 480
cctgaatata tctgcaatgc gaatctccgg ttatttggnt ttttaaaaaa aaaccctc 540
ctccgtggtt aatttangaa ttcctttaag ggaaaatttt aaaaa 585

<210> 7846

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7846

aaaaaggact tatccaaata atctggataa taaatcgttt gcgtttccta anaaactggg 60
tttttctttt cccttgtggt tttggtgttt ttcttcttct ttgancetta ctancggtct 120
gaagctttct ttctttcctt tgcctttttg ctttttgaca gganaaagca gtttgtctga 180
attgtacttg actcttcnaa nangaaaagg gcgtggaaac anaagggggc ttagggagaa 240
aggacaaatc nataacggag gaanaaaacg anaacggaac taaaacccat ggaacccaaa 300
aattnccggg ctganggtgg gggggtggaa ggaaggcctc ctgcctgccc gcccccaacc 360
aactncctcc agaagcttca gcccctctt ggttcctgca cananatctc aggccaanaa 420
aaaaaaaacg ggggtggaaa aggaactctg ggccctctaa caacaaaata cntggatttc 480
naaaggttgt ccttggctctg ggggttggga aaaagaagaa gaaaagcnct ntggttttaa 540
ctggaagaac naaggcaact tccctccgga ng 572

<210> 7847

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7847

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gtagaggcag ttccttttat aaaaagcagg aagccttggt tanactccaa tgtataaaaa 60
atagataagc atatacttgt tgctgataga agtagtagca cctaattgcc ctgtgaanaa 120
tgtactgaac aagtttaatt actacaagtt gattttttat tgagtgcaaa gttaaaaata 180
acgtattctg gagctatatg ttacaaaaaa aaacatgtac atggaaatca aacttctatg 240
ccagaatgtg gatganaagg aagcaaggcc ttccctgacc acccactccc canaattcag 300
tgccctgcct ggtcagcttt ttccataggc cctggcacta tctgagatat catctgtcta 360
ctcgtcttag aatggaaatt cttgagggca ggttattttt gcctgccatg ttgatatccg 420
cattcctcta tctncaacat gtctancaca cacaggtgcn cagtacatgc ncttaaggaa 480
caataatnn antttgaatc cctaacctcc ttggctggt ttgcaaaaa aaactntttt 540
actttaaatt acaagttttn gaattccaan cttttt 576

```

<210> 7848

<211> 486

<212> DNA

<213> Homo sapiens

<400> 7848

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ggatttctga ttcagtttaa tggtaaggag ttgtgtnaaa ccgtaccaag tcctgcttct 60
tcctcaaaat gagctgggct gcatttttgt gactggaagc atttctcata atggtgaatt 120
aagcactata aaaaaataaa gtcaatccca tctctatgag tngcataaga gctgcttcca 180
anaaccagg gatgccca tcccataacc cacccanaca cggccaattc ctcatanaca 240
gtacataaaa accctttcgt caacttggtt tggggggtga nananangca gtgcttaggg 300
aaaatgtngg atggattttt tttattcctg ccactaccaaa aaactataaa tctacacaca 360
cactcacacg cacatacatg tccattttta agaaagcttt tcctccctgt gactacagga 420
accagaatc ccccccccc ngggtgaaaa aaaangccta nttacnggcc cnatttttncn 480
tttcac 486

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<210> 7849

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7849

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ggaaaggtat aaaacgtgat agatggaaca gtagacatac aacttgaata acaagtcaca   60
gtgcatcgcg ccatgaaaac acccctcccg cccaccacc ccaccgtacc ccaccactc   120
tggtttctga aaggangctg gtggtcacca gggccctaaa naggcacctg gagtcctcaa   180
gattgtggag tccacggaca tagcacactg tgccactagc cacacagaca gctgggctta   240
gtttcccaa acattgccgt gtgaaggaat cagactgctg aatatggcag caatggctgg   300
agccgtatta caggtgacag gttcacgagg aggatccgct gagcccgctg ccgcacctca   360
tcatccgagg accgcctatc tacctttatg gcacggaact tcancagctt tgctgttcca   420
ggccctacca tgccttanga aatcggggcc caaccctgtt ctctccttgg aagaaaatnt   480
ttgtcccca ccctttcctc tcctgcccaa aatctcaggg nggtttcntg gcctncctnt   540
tnttttgcc ttacaaattc ctttgccgn cc                                     572

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<210> 7850

<211> 502

<212> DNA

<213> Homo sapiens

<400> 7850

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aaaaggtttc aagttcaata gtcactctct ccaaatacaa aaagcagtta caattcaact   60
gaacacagaa gcttgtgtgc aaagttatgg ggaactgggg catcntataa aaagttgggt   120
taaanatgat tctgtggttt gggtttgttg tggtttgttt tgtggctctt cctcagtcac   180
ctgaactcag gaaanaaatg cttatcttga tgaaatatca acagcccacc cacagtaaaa   240
agacaaattc taaaaattaa aaaaaagcgc ataattacca aaaaaaagtc actgcttcct   300
ccccctcccc attttgcttt ttaactttt ttttttttaa gttttgattt tttttttaat   360
cctgaaaagt aaacagtaaa acagctcctg gggaaaattt acaaccaact gcatnaaggt   420

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ctgggaaact naagggctgg aacanggttn ggaaaaatta acaggaaggg atccccccnc 480
catccctgtt accnccctnt tt 502

<210> 7851

<211> 316

<212> DNA

<213> Homo sapiens

<400> 7851

gggtnatgct gaatcacatt tattacaaa ctttcctggc cccatgctca caggcactgg 60
tactgattc aggcatttgc caggngtgc tgcttggcn actgctgcag gaaancaggc 120
tgaggcccca ntgcccantc tgaacctta aaccggccct cagganggt canccccata 180
ccactagggg ggctcctgca aacctgntcc cttggcctga ggcagggtt tcacctcctt 240
ttgcangaac cnetgcaagg ctgtngatna aactttctgg tcacaaancc ccttctcctg 300
gggctgctgt nggant 316

<210> 7852

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7852

catctaata tttattaat atcatataac tctgataatt gtcaggctctt catctttatc 60
ctanatcaat ttgaaaagca tcactttttt acccgaataa aaatttccaa ttcagttttt 120
cttctttttt caattttctc cgcctcaatt tggcaagtat gacaaatgta cagatgggtg 180
acagctggtc ctccaccata cctgctatat aggttatccc aaatgttctg aggcagcatc 240
aaaaccaggc cttcaatata accagctttt cttggaggaa cacctccatg aatacaaaga 300
aagtcattat ttgaaatagg gccagggtcg gcaaaggctt taaatttatt aagccactgt 360
cgagaaatat aaaactgaag gangcttggt tccattatgt tcaataaatt tgatatacctt 420

ctcctctctt tttgtgcctc ttcgctgctc ttcctataa aaaaaaaact tagcttctgg 480
 cntttgttca ataaaatccg aaacttcnat taaactctga tctccaantc ctaccaaaaa 540
 tantttaaat n 551

<210> 7853

<211> 516

<212> DNA

<213> Homo sapiens

<400> 7853

accacagtct aaagtccttg tattctcttc cacataccag ggctgataat ttatcagttg 60
 ccattgatca aagttcaca ggcaaatctt cataaacttc taaagctgcc tacagtttcc 120
 cgtaaacaaa tctctaaatt tacaaaagca atgcttgctg attgtaaaaa acacacagtg 180
 ccaaagcata caaaggaana anaccgctt gcaatttgct acctacatcc cactcttggg 240
 gccacaact attggaagtg tggtagtgga ttgacttaca tccttctaga tcttatctac 300
 atatttgcaa agaaaaaata tacatatata aaataaaata tgtgtgggtt atatccttac 360
 aaactgagat cataggcagt tccgcaactt gccttttctc tgtaacaata aatgatggat 420
 gctttgcang gttngtgcta canatnctat ttatccttta aaaagntgca taagaacct 480
 gtggcccatg aaataatgca tgaanaccta ttgaac 516

<210> 7854

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7854

gcaaaaaaaaa aaacaaaaat aagtgcatTT tatttaaaca acggaacaaa catcaganan 60
 catcccctgc aaagccccc ccccaaaacc tgctgatgga agcggggctg caggacgctc 120
 tgccacaacg gcagcatctc caactgcaca aanaccctt gctgccaggg ccgggcaccg 180

gcctanctcc tcgcctgcct gcctgaggca gccgtggaat cagggcaggg gtggcacagg 240
tnnaaaagac agatggaaac aatgcccatg aatataccca aagtgtccca ggaggataaa 300
agccgtcatg aggaccanaa gccaaccag tctttttttg gcctcctgga naatttgttt 360
ttgagacctg anactccacc tgaaatggct ccctgaagan cccacggan caagaagggt 420
nttctgaaga caccctgaa gaaaacacan tgcctgcaaa agganagccc ccaccaccct 480
cccgcaaggg tctggacact aaccccatcc tgaaaagggtc aaaaaaaaaat gaatctccaa 540
aa 542

<210> 7855

<211> 507

<212> DNA

<213> Homo sapiens

<400> 7855

ggtcatttcc tttttatctg tcaggcagcc agctctgact tactctctgt ttctgtcatc 60
tctccccac ataccaactt cttcaccatg atgattatac caataatata gttccttata 120
tgaggggctc tggaaaatta nacagtgaag catgttgcag attacatgtt aaacagggtct 180
aattcacaat gaatgacaac ttgagacaat atgagacagt tttcagacaa cagttttgtg 240
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gaggttgctg aaacagtggc ccatggatgg agatgtataa tcagaagcaa ggagacacag 360
ttctccgctg gagtcttcta aagaaatcaa gcctgcccac acttttgatt ttggncttct 420
ggtctccana acttaacca aaantccaan tccaaaatcc atcccaagan aangaaaaat 480
ccctcctgcc tgttaanccg ttgttcc 507

<210> 7856

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7856

aatgctttta ttctacataa attactacca taggctaatag tttaaaaagc aaataaaactg	60
gacanatgca ggacaaaatc tggtcaccca actataaaag gtgatgtttt taaaaaatta	120
caataaatgc agaagtgatg catgcagtaa ccttaattcc cactgttcca gaaaagaaaa	180
aacagaaaaa cccacacatc ttactgtact ccaccttaaa atgcatcata ttgggtttgt	240
ttataacagc acagaattcc aagagtcaaa atgaaataaa gcaggatattt taaagtttaa	300
nanccgttat caaaaataaa ttacattttt tcaaaataca naaatgctgc tatgatggct	360
gggagccag taacctttca atagctgcat tgatatacc tcctgttgct attaaanctt	420
gcaagtttgc ttcccnggtc caaaatccca ttgcctgaat tgtccnattg ttgctgaaat	480
ctgactcngg atccgttinct gaagattacc cacaaaaact gcacatnggc gaanaactgt	540
ganggcnat	549

<210> 7857

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7857

ctagactgaa acaaaaagcc catcccatat cataacatat aatactgcct aaataaaaact	60
ttctatgatg atagaaacat taagtatcta cactggtata gcagccacta nccccacatg	120
gctagtgaac acttgaaatg tggcttgtgt tactgagaac tgaattttaa attttactta	180
atacaaaatt aagcagccat atgtggctag tggctaccat gctagacatc gcagtattag	240
aacataaaaa aattctataa gtaactagaa tactggtagt cctanacgtt tcttgcattc	300
tgaaagccat anaactgaag ttgttatgta tggttatttc tactttttaa aaaaagcaaa	360
ttcttgctgg tctatataat agaatgactt attttcttac gtggtaagaa cagaaatcct	420
acaaggaact ggganctang ctggcaggga aaaattgaag gtgattntt taatangaat	480
gttatgccaa ttcttctgtt ttccaaaaaa aaaaattatt gcttatgaac attactggaa	540
ccngggnttt ttgttttttt acttaantta ataggtt	577

<210> 7858

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7858

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gaacattcac aacctttatt atgggtgaga ncttcactac aacttttagaa ataaaaagta   60
aaattacaac atangtccta ggccttggcg ancctgaaaa anaaaattgg gaaaganggc  120
acagggtcct tccacctccc tggaaagggtg canaatganc cangcctaac tacagggcca  180
tgagcctcta taancctagg ggggaataan aaacactgtg aacttanata tataaataga  240
gagagaccen agcaataggc cgggcctgac tcccanaccc ctgcagatca tggctaaggc  300
cttacatcct cctctgtcat actggantan gangcagggg aantcatctt tggagtatct  360
tggtttttct tatttatgta caaaaaagtc cacatccaca atccaaaata aagtctctctg  420
tccatctctg aaactgcctg tctcantttt tcccctgtct gtttggncca agggaatgga  480
attnacttaa aaaaccatgg attttaaaaa aaaataaacc ctggttttgg ttattaaaaa  540
aaaaacattt gggttcaaaa aattc                                         565

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<210> 7859

<211> 571

<212> DNA

<213> Homo sapiens

<400> 7859

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atttccatac atgtttatta tatacacact gcctatagat tctgtttaaa taatctctaa   60
gaaaaaaatc aaacttttct gagcaggtga ttaagctgaa aacaaccaat taaaaccacc  120
actttttaag tgaccttttg tcacaaatgt caaaatgttt ccacaccctt tccaccctca  180
aacaaganac aaactgtttt tgataaactc tagtatttat taaattataa attttgnat  240
cnaaaagaaa aatgcagacc aaaaaaacct caaactataa gactagacag caaagcctat  300
gggaacacca tgaagtgtgt tacaaacatt ctgaaacata agttactggc tgttttcatt  360

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tccatttcaa taactttact ataaaatagt tgttattcat ctattttgaa atcccaaatt 420
 cncatctatt catacattaa attatgtttc ctgttcataa tatcaaacad ctcacagggtg 480
 ccaaatttaa taatgggtctt atgccatccc tgccgaaaaa ataaganacc atgccggatc 540
 cnatnaggac cntnatgccc gatatncaac c 571

<210> 7860

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7860

cttcaatggt tattattttc gtattttttc acttaatact acataaaatc taagatctca 60
 gctcttgga tacagaaaaa tagtttcaaa gtgtatttta gcaaaacaat ttataatgaa 120
 attagcattt gtgaattaag catgtcaaca ttactgtgtt gcttgtagg cacactgctt 180
 attgtacag ctttatcagt cagttccatc atttcaatat ttggccac cacaccactt 240
 tgaaacatgt aatgaagggc aagttttata ataaaaaaaa caacttgga ttactcaacg 300
 ggaagtcagt acatgttttt tgcaaggaga acaacataac tgtttaatga tgctgtcttc 360
 aatatactac ctaattctgt ttatgcaact tctcaccagg taattgtttt ttatgggtcag 420
 ttttgctttt ctttgtcccc tagtcaagg aganttgta gtgttggtat ctggaaattn 480
 cctcatgtcg aataaaacca ctanatgnac tcatnatnta ggtgttttct ctagtaccat 540
 tacacaaaaa aaaagggtccc caaaa 565

<210> 7861

<211> 534

<212> DNA

<213> Homo sapiens

<400> 7861

ctgtgggagt ataaatatgg ggacatgact atgggactat atattttcac attgttagca 60

ctttgttagt acagttactt ttaggtattg tcttttagta gcattattaa agttaaaaaa 120
 taaaggaaac agaagtaaag agtttataga aggatacaca gaaatacggg acttatctct 180
 gagggtgac attagaatgg gtttttcatt ctatcctttt tactttattt atacattgct 240
 tatataacag atatcattca agagcaatga agataactgt ataatgctat ggcgtaact 300
 taccttagca tacaaccaac ttgataataa ataatgggtca aatggccaaa cctaccaatc 360
 cacagaagat cattcaaata tctaaaatga ttatggatca gacatacaga atacnaaca 420
 taggatacaa acaacaacaa caacnacnac aatttcccat gattaaagcc canggttta 480
 aaaaaaanac cctttcttag gtnnttnac ctaaatnttt tccccccaa aatt 534

<210> 7862

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7862

ctgccaggta aaggtcagtc acctgcacac agatctcatt actcacgata tgctgcagct 60
 gtctgacaat gctctggatc agtttgtcca tggtaaaggc aatgtaggca tgaatgggtga 120
 acatctctct cagtgaatct tcatactgtg atgagcttat gttgccatcc agcaggctcc 180
 gcacatgtc caggaaagct gggtaataat cttctacatc aacatccata ggttctttga 240
 nacgtanctg aatggcaggc ctgtcactct tgtctcgctt tatgcccagc acttcccgtt 300
 cccattctct ctctcggttt tcttcttcaa tttgccgttc ggcttgggaa caaatccgta 360
 gcagcctcag gcaganaatc tgggtcagtc gcataaaaat ataccagttg ttgttgacat 420
 aaaaaaagtt gtataacttca tccaatccct taatttttga actgctgtnt ttacaaacaa 480
 ttacttgga ttaaggggaa tgccccaanc ccatttgctc ctaactgccc cttgggntnc 540
 atcnaantca nct 553

<210> 7863

<211> 520

<212> DNA

<213> Homo sapiens

<400> 7863

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atnggacaac acanatttat tatgtttatg acatgttaaa taanctggan aggttanant 60
gacagttctc agtgttacct tttcaggttc atctttccct aaagtacagc aaaccaaaaa 120
aaaattaaat taacttggat caatttcccn aatagggat ctaagtgact atagaaaaat 180
ttacagaaat acntctggaa taacacacnc agacatatat ttncataata ctgttaacat 240
aaaaaacagc taaaatttct ncnncagaa aacagatgcc aanatgacaa ataantccag 300
gtaggcattg taaaatctgg tttaatacac taanaaaaat actaaactgg tgagttttac 360
ccnacaggga atctttaaata accanaaaag tacctccaat tttaccttnt ttggaaatga 420
aacaattcn ttattttaat atttaaanat tgtggtagta tantccaaac ncttaatntt 480
ataatatncc tttagaaatt aaatttaagt cnccccaccc 520
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<210> 7864

<211> 543

<212> DNA

<213> Homo sapiens

<400> 7864

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gtttganaaa tcttttatta gaanatgtcc cagaagggnn acattttaaa atcaggcaat 60
cagtaatcac aactaaatac aaaatttcag gtgaacttgc ctttcaaaat aaatcanacc 120
cttgcaacag gaaattgccc caagantttt tttccttgn caaaaacagt taacaccact 180
ttgcnaaagg natncaaaaa tacaatatna aaaaaaaga ctccccagc ataatagcca 240
acagcagctt ataaaacaca agctattcag ttganacatc agtaacctac acccaaactg 300
tcctccatan acaattccan aantcagctg gcttttgta accatgctcc aaaagggtna 360
anaggctatt tccaaacatc ccctggggtc ctctgaaggc aagaagcacc tcngaaagaa 420
accattatgg acaataaatt tggaaatnca gctggttttc ccnaaccata tntattctta 480
ncaccctac caccceaact tccaaacca aaccncaggg ccctgctntt cttgggnaaa 540
att 543
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<210> 7865

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7865

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aggatctgta aactacattt attgaatact tactggacac atcatatata aaaaaggatg 60
ggggcaggta anaacttgaa naaattaaat atacacatta agtttcttca ctaattctag 120
ccactaaaga agtacaaaat ttgtacaagt aatactttat aatgaaattt tgatgcctgt 180
caaaagggtta ataagctata catatactac aataaacatt tttaaaaact gtgcttaata 240
tcatagaatt ttcttaaaat gggttggtta aataacctata tagcatccat tcttacacac 300
atattttcca ctaaagattg cttaaatagt acaaattcct attgctaana aattcatggt 360
caacagctgt atatgaagtt cctctaagaa acatcacagc atttgtagta agtccatttc 420
tccagtgaag cccaccttat tttcagttta ncttactaac aagttctcat gaaaacgttt 480
anatgtcttt ngctggncac ctccctccagt ttccgaatcc tttttaaaca atttnaattt 540
cccaaattggt tt 552
```

<210> 7866

<211> 481

<212> DNA

<213> Homo sapiens

<400> 7866

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ccanaatgaa attttattgt gtaaagttaa tagaagtatg actagtattc ctttgtacaa 60
agtacacaac ggttttaaat ataactgaga naaatgtgag tcctntgaca acatctgata 120
cacgctgaac catttacaga cactactaaa atgttttaaa atatcttctt tctccaaaga 180
gtccnttgcg catttcttag agtaaanatg gggacacatn ccaggcaagg tcacnatggc 240
attttgttgc cctcaangct gattttcnct gcgtgtgcan atctgctttt tttcctnata 300
```

tctgtgaact ttctcatctg ttnanccagt cgaccgatac ccttcttgga ggtcgccctga 360
 aacctggatg actccatttc cacattccat ttgggcctga acaacatata cttgtttgaa 420
 ggcatggga cccttgcacg ggcnnnaatc ccnggatctn cncgtcttng aacctctccc 480
 c 481

<210> 7867

<211> 534

<212> DNA

<213> Homo sapiens

<400> 7867

atTTTTTTTT cctcttaaga gtaatatata cacaacacag cagctacatg ggtgttcagg 60
 caaagggtgc atgaacgana agccctctgc tccctgcccg atgagaaagt cccagaaaag 120
 gattcagcag cagcaagtct acagcacaaa catggatggc attgtccctg aaaacacaca 180
 gttaggtgga cctacaggag acattggagc ctaaacaatgt gggaaagggc tcagttacag 240
 tacattctac tgcatacact tgaaatatta cagtgtgttt tttctccaga ctattataaa 300
 taatTTTTcg tgctttctga aaaaaataaa aactgaaact ttcagtctgc gatgaangtg 360
 aaccatctt ataaagcaga ncttacttac attctgcagg attttggtgt ggatgcataa 420
 aangcttacc tggttagtaa gcctccattc ctccgaacta canaaagnaa nccttctgca 480
 ctcccancan ggaattctta aaaaaaaca gntttttaaa aatcttactt tncc 534

<210> 7868

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7868

gatttgaaac ttattatat aaattttcat ttcttttaaa gattacaaaa cctgttctat 60
 gacaggaata caagcaatat tgttccagga ttattcatgg atacatctga agagcttaga 120

ttacacatta atagtatgat ttgaaaactt cccagattag actcttaagt aaaacaattt 180
 aaagtattta gtgatatttg atcctttaca agcattttat aattatggca gcaatgccaa 240
 gcatctgatg cgatttaacc accaacaaaa ggtacaatat gtaagaattc atgatatggt 300
 atcttgggct tctggcatgc cttactagag agaaactagt ataaaggaag atcatatata 360
 acagtagaaa aatatttgtg atttttttct tttttaaaaa ctatttaagt aggcacccac 420
 cccattccca cccatgacca aaaatgcaaa ataagtacat cccttaggtg tataccttcc 480
 cttttgctta gggngcagtt aanataaact aataccgttt ttgaatttta ganttttaaa 540
 cccccccccc cntcccnng ggg 563

<210> 7869

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7869

aaatTTTTTt ctttcaattt ttattcattc agcaaatact aagctccac tatgcacata 60
 anagatgttc aatcaatgtt agatgaaggg aaaatattca gaaattcaca agtcactcca 120
 gcactccaaa aacatacaac tcttcatgct cctcccttct ccgttcttgg cctcatctct 180
 gcccacatca caggttggtt aatgctcaca tgaacaagaa ctttaagcaca gtatgacatg 240
 gcctgtgact tatacaaatg tctgtccac caagaggcca tcttttaaag taggtactag 300
 ttccaagcct aaaaacaccc taacgggtct tcagcttcat ctgaggatat gccacagtga 360
 tcatgcctgc tatagaggac acaagacctc caagtccaat gatgccagga ttggatttat 420
 agatccccag ctggtccaaa gggttcagga tatcacaag gttcttact gtgtccaaga 480
 acaagggaag atgctgcttc cnaaatctga atnnaanaat tttaaaggat tgggnccttc 540
 tgtttcncc ccccccccc tnaaacc 567

<210> 7870

<211> 571

<212> DNA

<213> Homo sapiens

<400> 7870

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gcacgtagta acttatagat atatttgaa aactgattat cttttaaaaa atgactacta 60
aacagattaa aatgcagagt tcattaaaat acagaggatg cctctgggtc tctggtattg 120
actctttttg tctactaana taanaagtct gggctaggct gaaaaactca naatccaggt 180
ctgggggttc ccagtactat gctcccattt ccgagtactg tgctcctatt tcccagtact 240
gtgaactccc ctttcccagt actgtgggct cccatttccc agtactgtgt gctcccattt 300
ctcagtactg tatgcccatt tcccantact gtgctcccat ttctcagtag tgtactccca 360
tttctcagta ctgtgctccc acttctcagt actgtgctcc cacttcccag tactgtgctc 420
ccatttccca atactgtgct cccattttgc agtgctgtga gccccattt cccagtactg 480
tgctcccatt tcgcantact gtgctccatt ccnaatacgt gcncccattc ccnaangtt 540
gtaccaagtg tttaaaaaaaa tntccgggga a 571
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<210> 7871

<211> 593

<212> DNA

<213> Homo sapiens

<400> 7871

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cgactggggc aggcgggctt tattccgggt gctggaaanc tgtgggcccc actcctcccc 60
caaaatgcc a cgggttgag gggctgancc tcancagggg tgagcgctca aancangaag 120
gggatgatgg gcatgcgcag gggcgggtaa tcccggaact ccttcaggta actgcggtgc 180
ttgcccttgg cccaaatggt catctgggtg aagcccacca gggganaaca gggccactgg 240
ganacactgc ntcgatgatg cgaaaccgat ccaggacccc acctcgtagg tgtatttggg 300
gcaggacacc ancaggaaaa gccacgtgaa ggggttcttg gtggggtatg ggatcttccg 360
cgtcttggac ccancgggcc gcaggtcccc cagggccatg tggatggaaa atttccgagc 420
tggcatatca caaaatggc naacgccant ttcacctgct gaactccgta ggtaggggga 480
atttaaaaaa ggtgattgat nttataggcc accaccgcg aacccatta ttagttgcan 540
```


tccttgaaaa ttttcccca ngcatattcc ctgggaaaaa ccgtnccaaa aac 593

<210> 7872

<211> 512

<212> DNA

<213> Homo sapiens

<400> 7872

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 agtggggata tcaaagcttt aggcaaaagg gtnaaaacca atagtgtttt ggtcatctag 120
 aacattaaaa agaaaaaaga gccntccttc naaaacaaaa caaatgaaac agaaaatagg 180
 tttataagag gtggaanagt cngaaaaatt acatacacac attaacaaca tagaacatgg 240
 attacctttg gaaanaatca tactgaaatg tttgctttta ataaattgaa natttttcat 300
 gtttacagat gtttgggtat gttcaatagg agcttccaaa aatgtcaaac taattcagtc 360
 ttgtgcaaat aaaacctaaa aatagttttc agcagatttt acagtgatat tcttagggta 420
 tganaanaat gencaccctc tanaaacnat gaaacngacc aaagtttgac aatgaatggc 480
 ccntaaaaca atgttttttt tccgttaca aa 512

<210> 7873

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7873

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 tttctagctg gcactgaaac ttaacctatt tttttgaggg anaaaaanac taaaatgtaa 120
 gcactaactt cctccttctg catcttccac anaaaaccca cttgtgggca ttctctttct 180
 gtccgttatac agtgggttta catccgaagg ccggcggcaa gacacttgaa ccacaaacac 240
 canacatgca ggtgtctcaa tggcatgcan attattttaa gtgcatcact tgtgagaanc 300

tctctaaatt tctgactgtc ataaccaggt gtcacctaaa atctgtcctg taggccaaga 360
 tgctacacgc agcgcccagg cagtcagagg taagtgagcg cctcccgcct cagaaagctt 420
 ttacagggcc acgctcgcca ggctttcctc gcccacgtg aaccacgtcc tgggcacagc 480
 aactcccaag ctgtcncaat ccgctggnaa tgccancaca cctctccgaa tcatncacan 540
 tggtnctct ataactctca nccaacc 567

<210> 7874

<211> 588

<212> DNA

<213> Homo sapiens

<400> 7874

gagatggagt ctcgctctgt cgcccaggca ggagtgcagt ggagagatct cggctcactg 60
 caagctccgc ctcccagggt cagctcattc tctgcctca gcctcccaag tagctgggac 120
 tacaggcgcc cgccaccatg ctgagctaat ttttttttg tatttttagt aaagatgggg 180
 tttcaccatg ttagccagga tggtttcgat ctctgacct cgtgatccgc ccaccttggc 240
 ctcccaaagt gctgggatta caggcgtgag ccaccacacc tggccaaaat cctatacatt 300
 aaatgtttgt cttacccaaa ccccaaagtt aaattgtaaa tataaaaccc acagcggggg 360
 tgagaaaact ggagaacagt ctttctctat tttctacaa tcttcaaata agaagtatct 420
 gcttatataa gacaggttag tggcaatacc tggcttanaa agtttctaga tttatttcta 480
 gctctctaca tactgtgata aagtcctaaa gtttaaaaat acccccaata ttacaggcat 540
 gctgctttat aaaatatgcc ctaaattcna accaaatact ccnttctt 588

<210> 7875

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7875

gttttttttt gagcttanaa aatttattcc ttttgttctt ttcctttgaa ataacacaca 60
cangcagggga ngtaggggcgc aatggaagtc naaagangtg gaacgtgcgg aantcctcca 120
gcccctcccc aaatcccagt tcccctttcc aagtcctcc atggggtctc canatgatcc 180
taagctcana atccaactat gaantgcaaa atgtnagggc gcaggggang aagactttgc 240
tcctctctct ggtagaaaaa tanatctgga atgaatttgg ggatttgggtg gttttttttt 300
gtttttgttt tttgcatcat tgggtgcttg ggtttaagga aaggtgggtct ttgccgattt 360
tctcctggct ttcaactctg gaancctggg gangccctga taatgctggg gtggggacat 420
cccttcatgt gtccctggcc tcanactgtc tccttgccac ctccaagaat gagtgatccc 480
tccgaccctt ggaagaacac anctctgggg antatccctt aaaangtggg aagggganag 540
aaaaactttt aattttngga aacnngaat taatt 575

<210> 7876

<211> 527

<212> DNA

<213> Homo sapiens

<400> 7876

caattaacaa aagtccttta tttgtgaaca atgaganana ctgacactag ctttgtatgg 60
ttttactttg gaaaatttta caaatttaaa gtaataaatg tnttcatttt ctactctgc 120
agaagttcaa ttttaaaaag aacattactg ttctaaaatt tcaaaacata caacatagtc 180
tgtgcttgta acattttcag attcgtctgt gacagcttga tgttntgaag agaangaggg 240
agaatggctg tgagtggaga aaagagcgag agaataattct tatagtaaata gttagtaaaa 300
ttaanagaaa taatgggtac tgtcactcac aatataaaaa ctccctgctg ttttagcaca 360
acctggtggt gataaatttt aggtacagaa aacatcngaa aaatcaataa agtgttctaa 420
ttacttttaa tctacttatt gtatgctatt tttttcnat tennaaatct caatatccn 480
ttccnancaa ttagttaaaa ctaccctgnc ctgttcaaaa aaaaaac 527

<210> 7877

<211> 613

<212> DNA

<213> Homo sapiens

<400> 7877

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gactttcaaa gtttcttatg ttatatacag atcaatttct ttcaagaaac cagaagctaa 60
agagaacaaa atctgaaaga cccatcctgt ggcagtcact gagctaggag aattttacca 120
attattcaat ctccatagta atcatgagag gtaggaatct caagtccatc ttacagatga 180
ggaactaggc tccacaattt aagtaattgc tcagggtgcc acatattcga ncctaggcag 240
tccccatgtt tcctgctgca ccaaatgcct cacctgctgt ggctcctaata aggacgttgg 300
gagacttaca acaaaggten ttgacaaaac agagctgtgt ntagctttcc caanaaacia 360
ttgctttcta aactctctat ttctctctca aancagaaaa ctcttttaaa tcccctggac 420
aagaaatgga atcttcttca ctgctagggc tcgangttcc atcccaaagc agttttgatc 480
caaacgccn gctccacaan tctgtgccct ctengaacct actccctcat aaccgtggta 540
tcancntcc tgcttactaa ttinggcatt ttgtccggtt ttnaacaaaa aggaagggca 600
aaatgccncc ccc 613

```

<210> 7878

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7878

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gctaagctca cttanaaaag ttgggcacca tttaaaanan ttggagaaca naccaggggtg 60
gcttcttggg cacagctgga tgggtgctgga anccaggcct gggatttga naaaaaantt 120
tccgacatat aaaccacagg aggtcaccag cctccccgc atctactctc ctaacagctc 180
aggacagccc cgtcacacta ctgccagccc tgggtgactca ctttgttggc aatttttaaa 240
gccctcttca ttatgtactt cctactcttc agaacctctg tgataagcaa tacccttgcc 300
atacanaacg ctggatctcg gtttactcag cctctccctg tagcgtcaca ggctgtgcac 360
tcacctaggt gagcccctaa aaacagggtt tgcttctgct tcacctaac ccacgtcttc 420

```

cctcaaatgt gtggtcacca aatgtttgca aaaanggtcc tancTTTTTT ncttttggca 480
 cattaanccc tttaaaatac ttctgaacta anctttatac tcaaatttcn cccctccnca 540
 aaaaatttt 549

<210> 7879

<211> 605

<212> DNA

<213> Homo sapiens

<400> 7879

gcttcccatt tggggttatc atggttctgc acacggctgc tctgtgtatg ccacatttct 60
 gaatagatac tatgagggtt agcaagcaaa ccatggtggg taccacgttc ggctacctta 120
 cccgatcca agacaatgat ttcatctgca tcaaccactg ttgacaatct gtgtgcaatg 180
 aaaatanaag ttctgtgttt gaccacatcc ttcatggcac caanaatagt ctcttcagta 240
 atcgaatcta acgatgaagt ancttcatca tanaatatga ctgggggggc cttcaaaatg 300
 gctcttgcaa ttgctactct ttgcttttct cncctgaaa gcttgantcc tcgttcccct 360
 acttgggggtg tcatatccat gtggcattcc aanaattgca tcatgaantc canctaattt 420
 tgccactgca tacacttccct cagggtgaaac actgatnttt ccatataaaa agttgtaata 480
 aatantatta tggaaaaaag aaaacatcct gaagttccac nccccctgnc cccccaaagg 540
 ntccaagct cacatcttnt ttnttttgac caccaaaaaa atgccccctt ttgaaggccc 600
 anaaa 605

<210> 7880

<211> 517

<212> DNA

<213> Homo sapiens

<400> 7880

ccaaggagta gctttattca gggatcataa acatcacagc ctctcctcaa agtcaagcct 60

aactgctagg tccccagatg tacccaagtt gtctaggact ggcaggggta gcttgtttgc 120
 tgtagtgttt gagggcaaga gactgaccat ccatgcagaa agctggcctg ggctgctcgc 180
 tgccctgccgt ggctttccca cctcattagg agcccgttc tctcgggtggg gagatgctgc 240
 ccccagagca tcacctggcc aggtctgagg gcagagcatg gagtgggtcc agactttgtt 300
 tctctgctgc cagccgtaga aaggtctggg ctgtcagatc tcccccaagc cagacagcct 360
 cgctcagctc cttggctggg gccccttagg gaacaggcct gcaagtgtga tgagccaggt 420
 gtgctcatcc aggcagctac aggcgcagcc tctgatatct cactgcggaa gtctatccgc 480
 agggncagca cctggcgcac ttcacagggg tnnnnnn 517

<210> 7881

<211> 436

<212> DNA

<213> Homo sapiens

<400> 7881

gaaattggag taaaagttaa ataagtgaag gaaaaagct ctccacagtg gaagtgggga 60
 tccaaataag ttgccagta tgaggctggg gtccgggggt tttatggact gggaagggga 120
 aggaatgcac ttagcctgcg ggctgtcttg gagaaagcgt gattcagctt ggtctgggac 180
 cttggcccgg gaccaatcag gaaccgaagt gatgattcat aggggctatt cagcttggcc 240
 cgggaccaat caggagtga agtgattatt cctaggggct attcagcttg gcctgggacc 300
 aatcaggagc tgaagtgatg atttacagag gctgggcttt tccttttcca caaaagaaag 360
 tgccaacctg aacctactga agcccactgt gttcatgccc cacaagaag aaactttttc 420
 ctccgaaccn nnnnnn 436

<210> 7882

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7882

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ctggaccagc tganTTTTta ttttacagat cataaaacgg atgaaagtat atcacagtaa 60
ttaatgaagc cgttctaatt tagcttgaaa aaattttaaa ttcccagtga tggnttgtnc 120
tgctactgac gaactcataa actggagctc aacaaggtaa ccacaaacag catccaggca 180
naaanttgtg aatcttctcc tttcacaatt taaaacttgg ctgggattct caacatatct 240
tatcaataat acatgtntac aatccaaaag gtgcagtggc ttcttcattc tgttccagaa 300
tggatcccgT gatttgaaca actgatcata aacttctagt agtctaggta atggtactcc 360
aatttcattc attgtctgta ttacgaagcc cacatcccag ttcaaagtac aaacctgctg 420
ttctaaaaac tgtacaataa aatctaaang aaaaaaacct tggttttgcc accataaant 480
ttggccaagg aaaacaatct tgaaaactaa aaacctgcnt cctatccgaa gaaacncaat 540
gttcncccgG tcncccantc cttctctatn aattcctgnc caatt 585
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<210> 7883

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7883

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gacagaagaa tattttattt atttataata tcattttgta aacaatcaca ctgtgcactt 60
ttttattcna caataanaac aatttttttc tagggattta tagcaaacc tatataaagt 120
gaatgactta atacacgant gaagatgact agggtagaat aatttctgaa aatgtcnaat 180
tacagcactt gatacaaaga ctgatgataa ctatctgtac cataaaaatt tacatgccac 240
gaaaacatta atttataatt ttaaataac agtaaaacat agttataaaa agagtattac 300
atttattata aaccagtga tttactcngag aaatatattat taaaacctac taaaaccag 360
taaataattgc aactgaggta aaaatttata agtnaacaaa actatcattt ataagggacc 420
nagaaagtna acaaaagggc agacattttc tgatgactgt gtctaccct gatattttga 480
agcagcttcc acaaagttna ctccataacc tgttgaacc tcnttaccna gggctncgct 540
anacctaata atttttccca atccgttcca ttgtng 576
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<210> 7884

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7884

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antaaaaatg gggttttacc atgttggcca ggctggctctt gaactcctga cctcaggtga   60
tccacacgct tcagcctccc aaagtgctgg gattacaggc gtgagccacc acgcccagcc  120
taaataatttc tttatagcaa tgcaaggatg gcctaacaca ctgcctaaat caaaattgct  180
attcacttca agggatttca ttacctgact agcttttttg ggtgcatatg aacataatgt  240
aaattttatg gctgatcaaa tgtcattact atgaaaatac tccctatgan ctcacagant  300
caggacatca acaatattta aactttcact gtaaacaatga cacantggta ggcactgtgg  360
aaatatattt ggtcctattt tccctacctg agcatgtnaa agancanact attctaacag  420
tgtgatgact ctgcagtga aaaaaaatcc actctcccg cactctgata aaacatgttc  480
ctgggcatag tattcctcna aggaaaatgg tcntaaaaat natctgnaa atccnatanc  540
atcccaaagg tccccctaa                                     559

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<210> 7885

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7885

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gtccccctaaa tggtaggatt tatttcaatg ctcacataca attgaatgag acaaactatt   60
tacataaaac ataagtacaa aaaatataat acaatttata ctgtacacaa tcaggattcc  120
cttgttttgt tccccccaca aatggcagct anagatggta agaaggggggt tggtaggaaa  180
gtgtgactgc aactcagca gtgctgagga tagatcttca gaatgctttt tcataaagat  240
gaatagggtt gagatacana aactgtcaat gcaccaagag cagtaagaga gcacaacata  300
ttcacttctg taataatagc tatatatttt ttcttataaa cgtgtttgtt tctcaaant  360

```


gaagcttgga ncaggtgtga gttgccttcc attgattggt taggtgaact ccgcccaccc 420
 ctgctccaac ttccataatt tgatccaatg ccancaggta atgaatttnc catttgccac 480
 aattggtttt cttaacctga atttcaaaaa aanaatgcan cnttcaaatt tenttaacca 540
 ccaatccngg gatacaaacc taaacnccnc cc 572

<210> 7886

<211> 583

<212> DNA

<213> Homo sapiens

<400> 7886

aatgtttaaa gagaatttat tctatagagt gcattcttgc actctatagg tgacagaaaa 60
 acaaactgtg ctttaaatac caaacaagta aatcagaaag cttattttct atttaaaata 120
 tatctaagac acacttatat aaaaagaaaa cagaccctcc taacatgtaa cattaccgtt 180
 cgtggcaatt gttctcaacc ttctactctc cttttgacct tagcattaag ctccctttgct 240
 cacttctgag ctctcagtta cagttcttga ggtggcatcc taaccaattt gcactatctt 300
 tcaggtgaag cgctggatnt ttaccanata attgaactcc ccaaaaggcc ccttggaana 360
 aacaaaacca ncctggaacc atanccactg cctggaaggc tcctgttttt ggctccccgt 420
 gggaaacttc catccggggt ggggtgcaggc tcccaaactc aggcttccac ntgtgctttt 480
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<210> 7887

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7887

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 ggtctgagct gccacagaag gcatctgcan agtcaccatg ttaacanant ctttatcctg 180
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 gggtttctct cctgtgtgaa ttctctgggtg gttaatgaga cctgacttgt gtgagcagga 480
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 taaacatgtn ttctggctga aacc 564

<210> 7888

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7888

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 gaagccgagc aaancatggc aggcaagtga ggggtccan ctgcagaggg cagaancctg 180
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 ctctcatgct tggtcagatt ccactttgga gaaaatgggc tcgtttgaca ggatggcctg 360
 gtgagggac acaggtacta acggtaacag gccgatgaac actcaccact ggcatcaggg 420
 tggaactcac ctgactggac ctaactccat tacaaggacc tgctcctgnt gccagnctnt 480
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<210> 7889

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7889

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ggaaaatctt ctgatgcttt gatggtacat attcttatta atgccctcac attagaataa  180
ctattttcag aacataaaaat ttaggttca aagttttttt caggttcaat ttcacattct  240
tganctaggc atggtactga tggttttcac cataacatac accaatgtcc ttttgtctgt  300
gggctcccat ccagcctggt ggctgaagtc atctacaggt aagattgacc aaacctctga  360
acaggactga aaaaaatggt atcttcagaa aaccagccct cttgtacact gctgctgtga  420
atacaaattg attaactttt ctggatggca atctancaat gcagatcaaa catttaaaaa  480
tacatatnta tctcgacaca attttatctc caggcatcca catgaaanaa cncccaatgt  540
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<210> 7890

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7890

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ncaggcagga nccaccaggt tctgaggcca ggcccagcct actgccccaa acccctgaaa  180
cggtccctg ggaaaaagct gacanatggg tcaggggtgg attganctgg aaaccatggg  240
gacagatggc agggatagag ggtcatgcan tgggaaccac ccagtggctg ataaggacag  300
ggaacttggt gctggaggct cccattggg ccatgggcan gggcttgcaa atggcctcag  360
ctctgggggc aggtananaa actgcanaaa ctgatgggca tggaaaaanc canacatggc  420
cctggggctg aagggccttt cccctctct tccanaaac ccctttgctc tatactacat  480

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ggcaagaaag aaacccttaa ttttcctac 569

<210> 7891

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7891

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aagctcgaaa atcatacatt aagcatagtt tgaattgtcc tgaagttata ttctgaaggg 180
gctgtaacac ttaagaacta ataataattaa aaaggcaaaa gcattataac tcacagcaca 240
caagactttt tacctcatct ataaaacgtg agaattgtcaa tgttttattg gctacaagga 300
taaggaagga aacatcagag aaataaattt gataacaaga ttcacacttc attacaagtg 360
attttcctaa attcacaact ttcacatttg gctgagtgaag agagaaaaac aaaacaaaac 420
aaaacaaaac tgaaaaggga actttcacta cttgttaagt aggccaactc acatgatccc 480
tccaaatgaa aaaattttaa tganaatgaa tttactttcn aactgggaaa atatttcctt 540
nnataanttn atttaaataa tttanccctg gggaa 575

<210> 7892

<211> 433

<212> DNA

<213> Homo sapiens

<400> 7892

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atgaaagtca gaagtttagc gaaaattcgg cctaaacagt aataaatgaa aatggaatgg 180

aaatcaaagt tcttaaatan aacanaaggc tgggcacggt ggctcacgcc tgtaatccca 240
 gcactttggg aggccganat gggcggatca cgaggtcagg anatcganac catcctgact 300
 aacacggtga aaccccgctc ctactaaaaa tacaaaaaaa attggccggg cgtgggtggcg 360
 ggcgcctgta ntcccancta ctcangaagc tgangcanga aaatggcgtg aacccgggga 420
 ngcagancctt gca 433

<210> 7893

<211> 579

<212> DNA

<213> Homo sapiens

<400> 7893

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 taactttgca acctcttccct caatcctcct gcttcagcct cccaagtagc tcanantaca 180
 agcgtgtgcc acacctgtct aatttttgtg tctttttgta gaaatggggt ttcaccgtgt 240
 tgcctaagct ggtctcgaac tcctaggctc aagcaatgcg cctcctccg cctcccaaag 300
 tgctgagatt acaggtgtga gccactgcgc ccagcctaatt gtcttctttc tgttacaggg 360
 atccagtana agatccacat ctggagatct tttcctttct ttatatctat caccgacatt 420
 acctactctt taaaaatttt gtaaaaggca taaatttgaa aaatatatcc tcattaatct 480
 aaatcaagtc attgatacaa ctatttaaca agaccccggc ctgcttggtt tattaacgan 540
 ttggacnnan tccnctttac atatataata attccgnnt 579

<210> 7894

<211> 404

<212> DNA

<213> Homo sapiens

<400> 7894

aaaaaaagaa aacaatgttt attaggatat tctgggggtga gaggatggcc aaagggacta 60
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 ttccaaagtc catattgcaa aacttgact tctacaggan atgttcttcc aagggtgttg 180
 gcaataaagg ctgttgcaaa acagctatgt gaggcagcca tgtgggagtg accccaggan 240
 aatgctccgg tgcctctgg aaagcanata cacaggacga tggacnaatg tgtcatcttc 300
 taccactggg aagctcagta aacacacnat atnacatgga gacccgccn aacctaaactg 360
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<210> 7895

<211> 478

<212> DNA

<213> Homo sapiens

<400> 7895

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 aaatatagcc acatataata cataaatctt ctccctgaa atagagcagg tcctgagcag 180
 agctgactgg gggccacagc ccacccccag ggtgaagtgg ctctgggact ctgccggtgg 240
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 gccgaggctt aatggaagaa ctggtagca ttttttttt ttttgagggt acctcngggg 420
 aaaagganan ganaaggaga gcctntntgn gccttgggtt ccatttgggc attcaggg 478

<210> 7896

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7896

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aatctcggct cgctacaacc tctgcttccc gggttcaagc gatcctcctg cctcagcctc 120
ccgagtagct gggacttcag gcccagtaga gacagggttt caccatgtta gccaggatgg 180
tctccatctc ctgacctcgt gatttgcccc cctcggcctc ccaaagtgtt gggattacag 240
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gcctgacacg tagaccagcc tcctgggttc gcagagggtg catttggtct tctgctctca 360
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tagtggaaca ctcaagcaac taaagtagat cccaagcctg gtagttcttt tttcttctgg 480
gncttgaaaa cttcatgtcc cgnacctggn atctttcaag gatgtncgg gccattccgg 540
gaantactgn gtggcncac 559

<210> 7897

<211> 571

<212> DNA

<213> Homo sapiens

<400> 7897

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ccttatcaag tagcaattac attgtttaaa aaaaaaaaaa agaacagtac atttctgtct 120
acattccgac aatccaacga ggcggcatgg gtcacatcca gtttgatgag gtgacagagc 180
cagcagtcac catccatggg catggttctg aggggactgg ggagacacag accatacatg 240
atacaaaatg attctgcagc aagtctgaag gagcgcagcc tccctcctaa tacataagaa 300
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cagggacaaa agcttcctat gcgcgtttca gcaggaatac tctnttact tcaggacttc 480
tttggtttng gatttttttg gcatggattt cttttccatg gtaaagnaaa gccaaacttt 540
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<210> 7898

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7898

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gtatgtgaaa taaaaactcc atgctgaagg ccaaattgac accagccaca agattacgtc 180
tacagtgttg tggaatcac tgcaaagaat gccatctcca aaacactcac caccagcctg 240
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ccagatggga cctaatagct cttttctact actcatttct atgataattt taagttgcca 360
catggcatat gtattttttt ttaatctaaa ggcagaatat cagtcaatga agtgaccagg 420
attttaatga aaggtatttt ttcataaacc gtatctattc acatgggata agttttcatc 480
tacccecaac ttntcacttg ctatacaaca catnacttac tatcaagggt ggganaagtt 540
ttttngangg caaccccatn tg 562

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<210> 7899

<211> 466

<212> DNA

<213> Homo sapiens

<400> 7899

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agaagcagaa aaaaacagct gttttattca actattcaca atagagaata tttataatct 60
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aatactgntt tataattata ttaataagaa aaagcatttt acctgttcca agaggggaaa 180
aaagctcctc attgagtatc ctttgtctnt agatcagaat ggtaaagtct tgggccttgt 240
tcttctaccc tggagcaatt ctccccagt caccctccag ggaatgtcag aaaacgtgaa 300
gaactttaga gactagaatc atattcaaac tttccttgaa agtagctata ataaacacta 360
acaccttttt taaaaggcca aattaggtaa cttcttttagg tggatcatcc agcaaaagcc 420

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aatgaacctg aatacaagct atttttttct tttctcaaan nnnnnn

466

<210> 7900

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7900

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gaatgccatt tcagcagtta cagtgttgat atgatcaata tagctaattt ttttataccc 180
gtcatatatt tttagaagtc atccgtaggg aagaagcaaa caacaaagac tgcttttttt 240
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taggttgaat aggactggcc ttgatgcaca tgcagatgat ttgctttcat aatataaaat 360
taaatggtaa tgtcagctgt attactactg gttctatatt tatgattaat tactagcagt 420
acaactccca gaaggaagga gatggatcca acagcgatgt aagcaatccc caaaaatggg 480
ttttttcctc catcntggaa tangntcaag aacatccgtt ttggccctca aaaaatggcc 540
gggnaatntg aaaagg 556

<210> 7901

<211> 489

<212> DNA

<213> Homo sapiens

<400> 7901

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caacatgatg aaaccctgtc tctactaaaa atacaaaaag tagctgggcg tggtaggcata 180
ctcttacaat cccagctact tgggaggctg aggcaggaga atcacttgaa cctaggaagc 240

agaggttgca gtgggccaag atcacaccac tatactctag cctgggcgac agaggtgggg 300
 aaaaaagtag gaccctgtc ctatattcag gtttttctca catatatgaa cccatctaaa 360
 ttctacgttg ttaaaggtag cttaggttaa ttagtctata cttatttaag accaatatgg 420
 ggtgagatgg attttttttt aaaaatncta cagtaaggnt ttctactttt cttntaatgn 480
 nggaaaang 489

<210> 7902

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7902

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 aacctctgcc tcctgggttc aagcgattct cctgcctcag cctctggagt agctgggatt 120
 acagatgcgt gccaccatga ctggttattt aaaacatttt tttgtatttt tagtagagac 180
 ggggtttcac cacattggtc aggctggtct cgaactcctg acctcgtgac ctgcccacct 240
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 cattctttat taccaaagtc ccaataaaaag tagtaattca aaaaaactaa aactcanaaa 480
 aaaaaaaaaac aaccttcaca ttatgnggaa aactggattt taaattaaag ggcctaaatc 540
 cnttttacna agtttttggc 560

<210> 7903

<211> 507

<212> DNA

<213> Homo sapiens

<400> 7903

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 cgtgtctgcc ggttggaact cagcaactcc tggaggccgg gcgtggaagt ggtcattctt 420
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 ggaagaaagg caaagacana ncccaan 507

<210> 7904

<211> 496

<212> DNA

<213> Homo sapiens

<400> 7904

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 ctccatcccc atctctttcc cgctagcgca gctgggggaa ggtgcctgct tgccggcccc 180
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<210> 7905

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7905

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catacacatc tattacagga atcacaaaac ttatctccat aaggaaactt taaactccag   180
aggcaaaaaa aaaaaaaatt atctccaatt tccccatga gaatcaaaat tgcaattttt   240
ttaaaaaaat tgcaattttt aattttatac ttttaatacct ttagttttaa gacaacagtt   300
aacagaatca attttagata caggtatttt ttaaccttaa tatttaaaag tccaaaatta   360
tatagaatta atccaaatca tatagcaaag aattctgaaa actgaatgca caattgggtca   420
catgatcttt aatgacctgg cactaccatc ctgctattgg nttcttttat gctggcgaat   480
ccaggtatat tgggaacccg nagttttggt caanaatgaa aataggggac cccatanggg   540
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<210> 7906

<211> 525

<212> DNA

<213> Homo sapiens

<400> 7906

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cagatgtgtt attttttatt gttgaataat attccattat atgaatacat cacaattttc   60
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aagctgctaa aaccattttt gtccaagtgt ttgtgtaaac atgtgattta aagttccatg   180
ataggggtgt ggatggccgc ggagccgggc ggagctggct tacggctacc ggggccggct   240
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tcgcatgcc caagagagga aagcgactca agttccgggc ccacgacgcc tgctccggcc   360
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agaaagccgt aaccaacgct gttcggcagg aagtaaaatc tctttgnggc ttggaagcct   480
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<210> 7907

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7907

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aaggaggctt tcaagccact tttccaaact gctgatcttg ggatgaatgg canggacctg 480
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ggaaa 545
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<210> 7908

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7908

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agaaccgccc ccacaaccaa acattcagat gcttattaag gcaacaaaac aagtgcaga 180
cgggacaatt tttccaattc tagatctaatt tgattagggt atgtctcatg aggaggctgt 240
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atagtagtat cgtcaggatc aattccgaag tgcagcttgc cgtccttggc ggctgcccag 360
 ggcatggagg tggaggcca ctttgccacc cagtctcctg ttttgctaac cacgatgagg 420
 ccacctaacc ctttaaccct tgacttcata taacccaacg ataggtccga acctntttta 480
 ncggctttnc ttggctatgn ggnacaaggt gaggttancc nggttaacct taggaagctt 540
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<210> 7909

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7909

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 cgggcggttg ccagcacttt cctcgggctg tggcgtgtgc acccggcctc ccagaggag 180
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 taagtttaga aaacatgggt taaagaaggt ttagcaagaa gcttttctat agggcttgtc 360
 agagccttta cggcaataac ggcctttgtg aatgtccaac ttgggggaca gagtgtgcan 420
 cactttcgaa agttattgaa ccacaaaacc ctttttccca aagcattttg cangcttggg 480
 gtccatgggc accccttggg aaantgctt ncctaactgt cnataccnct tatgggaatg 540
 gnacctgent aaggca 556

<210> 7910

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7910

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tacaggcaca tgccactatg cccaactagt ttttttttct atttttagta nanacggggt 180
ttcaccgtgt tagccaggat ggncttaatc tcctgacctt atgatctgcc cacctcggct 240
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acaggaggtc antgcccac atgttcctg tctacagaca aataaaaagc tgctctctcc 360
anagggcgcg cagcagtcct gatggtccaa tgagaccan aagctttcag gaaaacctta 420
atcccagatc cctttcagca ttatcttcta aagctgactc tttgnggac tcaaagccc 480
ctttttggca agtcgtntnc catttgntgg aacctttccg actgggaatc cccatgtttt 540
tgatggcact ttn 553

<210> 7911

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7911

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atttcgaaac tggttgctta ggtcttggag ctctgtcact aagggtgtcca tagctgttat 180
gtcatcagct aattccctgg acatttctcc agttgccaca tctgtaaaaa gttgctttgc 240
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gtatgccttt gagaagcctg gaatgccctt tcattttcat tangcttttc actctggcca 480
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ctctggccaa ataactccgg cagcttct 568

<210> 7912

<211> 579

<212> DNA

<213> Homo sapiens

<400> 7912

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gggacccaaa atggctgtaa ttgcagaaag gatggagggg tacagtgtga tgggagggaa   60
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cgtcccagtt ccttcctagc aaagcanaaa tacaactcct ggccacctta cagggcanaag  180
gtgaggcgcc aacggaatag caaatgtcaa agtttcactt aagcccaatg gaaaggtagg  240
aggccttgcc ttcttgetcc tttttggctt tctcctgggc cttcatggct gcgtaatcct  300
gggccatgtt ganaatgtat atatgctccc ggctgccaat ggccttnagc aggcanagga  360
gggcggctgc agcattccga gcaaaganag tgtcgaggcc atcaaacacc actcctcggt  420
agcagtcact cagcagcctc ctctccttcc ttcatggact gntctatggc accctgatgc  480
aaactnacan gccngatnc ctgggaaggt ggtgcttggt ggccaagtt tcagcacaat  540
ggagtcatgc tncagcgtc ggttgtaaac ttggncccc                               579

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<210> 7913

<211> 609

<212> DNA

<213> Homo sapiens

<400> 7913

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gttaaccttt attaaggtat aatttataaa ccataaaatc cacccatttt acacacacac   60
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acatttccat catctctgta aggtaccctg tgcaatttat agttaactcc catttccact  180
tctggcaacc actcacctca tgtctgtccc tacagatttg ctattctata catttttatt  240
attattctgc acatttcaca taaatgggaa catatactat gtggcctttt gtgcctggct  300
tcttgcattt agatcagtat tttctaggtt cacccatggt gtggcatgca tcgatacttt  360
attccttttt atagctgaat gtgaccacag tatataccac tttggccatt cacctgctga  420

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tggacactac agatgcttcc atcggagcaa aacagactca tccctgctga aggacaatca 480
 gagtcatccc cgagttatct ctgctgaaat catccctgct gagttaatcc ttgcttangg 540
 ggccggngct nagtcattcc tngttgggtca tgtctgttga agggcaatgc ttngcattc 600
 ctgntgggg 609

<210> 7914

<211> 607

<212> DNA

<213> Homo sapiens

<400> 7914

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 ttactttaga aacagtcaaa aacacaacag aatcaatcca gatttagaaa tgatgatttg 120
 taacatacaa tattgggtatg ctgaacaaga cagtttaaat gtatgattct ttttgtccct 180
 tcacatttca ataattcaca tttgttaaaa ctagtgggtg ggactaaaga aaaggtcata 240
 tctgaatcct ttccccctca gaaatctgtc acccttctgg gcagttacag aaatggcagc 300
 agctaggcaa tgtttgtatt tctttgggtg cctctgtgtc aaaaaatata tctccgcttt 360
 tattcttttt ctatgaaatt tatatttatg tggctatagg gcctggtcgt atgtcccacg 420
 ccttttaaaa tctaaatttc taaaaacaga cactccgtaa gggcaaggag catacactgc 480
 tatgacctca ctggactcag agcttaatgc tcttanggtc tcancaagag acatggattt 540
 gaactttcag tagcacttca agctgntntn aaccaacctt ttagcacgg nagtgaaant 600
 tttcaat 607

<210> 7915

<211> 599

<212> DNA

<213> Homo sapiens

<400> 7915

aacaagcaag gaatgtttta ttgtgtacat tttctcaaaa aaaaaaaaaa cccacaaaaa 60
 cagaaccac aaataggagc aaagaacagt tttctagcat ctctgggata cacagggcac 120
 catatcttat agaaacatag ctagtacaag aacaaagtgt actaattaac attaccctt 180
 gcttccccag tcaaaaaagg ctatagagaa aaacacttta aattgtactc taatacaaat 240
 ttgttgcaca attaaacttc aacttactca aagagttatt gtattgtaaa ctgcagaaaa 300
 tagaataggc attcaataaa tctgctcaca attaacaatt aagcaataga cacttgaata 360
 aatatagcat gtattactta ttgtttaagc cttacactta cgatgagcag atggtttatc 420
 actatatagt aacagatttt ttttacactt taggagatcc atatccaata acggaagtag 480
 aagtctttaa cgaaaactga ttttagaaaa atatctcctt gggctgaact actatgggaa 540
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<210> 7916

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7916

cagaacaatg tatttgttta ttaaataaag attgcttggt acacagaaaa ttattttctt 60
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 caggatactg gatacaagat taatagtcag tttgtctcaa aatatgtcaa tgtgttctgt 180
 ctgaaaacat gcagagggct tggagtaatc atatcatttt acgaggtgct ttanaaaacc 240
 aagctacagg tcctgaatac attccaaaaa tcctaaataa ttaccaacag aagagagAAC 300
 tnttgccagc cagtacactc aataaagaag taaaaggtg cagacaatgt aactttacca 360
 ggaagcttaa ggggtggccc agcttctcgg caggagtcag caggcctggc agcctccatg 420
 gctggcgctg ctgtgtggaa acagggccat ggtcttcttg agctcctggg agctccagt 480
 catctgctcc acctcgntc tgtgctgcgc ccgcacctgg ctnacttctg cacangntc 540
 antgggctta ccaagganct ggggttttct tn 572

<210> 7917

<211> 509

<212> DNA

<213> Homo sapiens

<400> 7917

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aaaacaaaa gcagtggaca ttatttcctt aacttttgtg caagagtgtg aagatgcatt   60
tgaaagaacc tgatggctag agcatcagcc atggctttca ggttggccta gtttacaatt  120
aggaaaagaa ggggggaaaa aggtaacttg cctagtccac atgaatgatg tttctggcaa  180
acacagttgt ttacaagttt caagctatat ttactaggg tcaagggaag acttcaaaaa  240
gccacataca gtacaattta aaattgtgtg aacatcctgc aaatgttagt gcaaagtaat  300
tatgtanact ctcaaacaa gactgtgctc ttggttccca ngtttggta atgttgctct  360
tttataatta caatcacaga agcttaactt accaaatagc aatgcctctg tgttttatgt  420
cctatgtacc aagggaatgt cacaaggttt ttatnaaat gcagcttagt tcattnatna  480
ancanattct tattgaattt aacaatnaa                                     509

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<210> 7918

<211> 532

<212> DNA

<213> Homo sapiens

<400> 7918

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acttattcac tcaacaatca ttattgttt gtgtgcaagg cactgtgtta ggtgccaaaga   60
gcagaaggaa gaagatacaa atatgaatgg gcatattctg ccctccagga acatacaatc  120
taagagtgat taattgcata caaataattg taataccaga tagaatgtgg taagtgccat  180
gggagatact actataggaa gctttcttag ctcttaactt caaagaccag gtcaggtttt  240
gtcctactgt agtctgtggc aggcatgaaa aggagctga ggggacctgc taggctttga  300
tgaactgagc tgcattcttg atttcgctc ctcttcttcc tcagccgagg ttacggtgat  360
tagcaagggc agttgctacc actgaaagga tagaaggaaa aaggcaaggg aaaatgatac  420
gtactaagat gcacatagga gcactcnata gtaagtctat ggaccgggcc ctgggggtact  480

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gccattatan agggaanggg aanaggattg gttanggana nagaacactt gg 532

<210> 7919

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7919

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aagcattatg tattcaacac actgatncct gatagcatgt caggaaaaaa gaataggcaa 120
tgcagtttaa ggggggaaaa actganaagt cataactact ccaaagatgt gcaggaaacc 180
acaaaagaca tggacctgct tctactataa aaagaaaatg aagcattct ctgggggtgc 240
tataccaact gtttcagccc attgtagtct tgcctctttc agggttttag ccactatttc 300
atttcattga aaagcagaca tctcctaaca aacagagtga cattaccaaa aataaagagg 360
gtctctcagt gagaagcitta ataaagaaaa atatttacct atgctttgca caattttctt 420
tttttttttt ttganaagg tgtctcgctc tgtcgccagg ctggagtgc gtnggccncg 480
atctcgctca ctgcagcctn caccgggccc gggttcacgc nattctcctg cctancctcc 540
tggaaaactg ggattacagg cacgtgcccc atgn 574

<210> 7920

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7920

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aaataaatat tcttctgcac agagttgaaa attattgtgc atcttgcagg tgaagtactt 120
tcattggatt gtatttccat ttgttgaggc accggcaaata aataaaattt gttctaattg 180
tttctcaagc tgtacaaagc tccaagggtc aagctcccca gaatacagag gaatatatac 240

aagactgtct tctctgtgtt caccaaataat gggattcaca gtgagtcatt ttaataactc 300
 ctacgccacc ccctagccga cggttaattca tcccgccata taacctccat gtattggcat 360
 caggatcaaa aacttctatg gtcttcaagt atgttgtgcc atcaaacct cctactgcca 420
 tgagctgtcc attgaccact gcaggccaac tccactacgg cgtgatgtca tggccaccac 480
 tggagaccac tggttgggtc tggggttgna tctcttagca ctgntcaact ctgtagggca 540
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<210> 7921

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7921

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 cccggctaata tttttgtatt ttttagtanag acgggggtttc actgtgttag ccaggctggt 180
 ctcgatctcc tgacctcatg atctgcccgc ctcggcctcc caaagtgtg ggattacagg 240
 cgtaagccac tgcgcccggc cggccatcag ctttaagata tcttctctga cagcagagca 300
 tccaaaagca gggaatccac cccttcctac aaggaggaggga ggcctggaca ggacttctct 360
 agacttctct aatctctctc tctctcacac acacacacac acacacacac gcgtgcacac 420
 acacacacac acacacactt catcctaaaa tgggcattaa gacagttgtg atcacaataa 480
 aaagttttgc ttgatattaa accattcttc ccatatntgc agaaaaatta gcaagggttaa 540
 taaaaagctt gntntgggat gag 563

<210> 7922

<211> 580

<212> DNA

<213> Homo sapiens

<400> 7922

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tatagtcaga cccatcaaat tgtattcatt aaatatgtaa caactgtact tctataaagc 120
tggtaaaaaa cactgtacct gtttggtttt acttcaacgt ggctataaga aaatataaaa 180
ttacattaca gcttgcattc tatttgtata gtactgtcct gctcaagatg gattaacagg 240
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cttgtcaccg tatgtcttc catttatcaa tatttcatat ttgagaaga catgaacttt 360
ttgaacaaag ataacagaaa atcattgtca atagttaatc taccagagag attcagaaac 420
cttgcatact tggttttcag gtcttggttg agagttctaa caccgttgaa aaatctcaag 480
agtaacctgg taatgatatc ttcattgaat taaaattaca ttttgcttta atctgatagt 540
cctcttaatn caaaagnca catcaagtta aacaacatcc 580
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<210> 7923

<211> 581

<212> DNA

<213> Homo sapiens

<400> 7923

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acagggacat tttgtattca gaattcaata taaatatttc tagtcagaca tttccatggc 120
tacagatatt tggttccttg atttatatgc atagaaagaa acagttgtca taactgtaaa 180
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ggcatcatga gtactctgct tattctttca ttcttgatt tttagccttc tagttgagtt 360
agggaccatt ttatcagaaa tcattttagc actgtaataa gaaaagctct gttaagggtta 420
gattatatac cataatgatt ttcagacttc tttttataaa aaaggtatct ggagactctg 480
aacaggcaca tgcatactca gggggaaggg aacaaaacat ggaggagtct gccaaagcac 540
aaaacttnc tctggnctc actggcttca aataaatacc a 581
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<210> 7924

<211> 578

<212> DNA

<213> Homo sapiens

<400> 7924

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caatcactgc ctctggggtt caagcgattc tcctgcctca gcctcccaag tagctgggat   120
gacaggtgcc cgccaccatg cctggctaatt tattgtatct ttagtagaga cagggttttg   180
ccatgttggc caggctggtc tcgaactcct gatctcaggt gatccacctg cctcggcctc   240
ccaaagtact gggattacag gcatgatcta aattctttat acccttcaag ggcaggaaac   300
cagtatctct gaaaagcttg ttgtttttaa tacaattgaa catttcatct ttccccccac   360
agtaatcaaa gcaaacattt tatcattatt attcttggtt tctcaaagta aattccagga   420
atgtaagaaa gtctgacttg gaaatattac atagaaaaag gctgaattaa cacattacat   480
tttttaagtt tttccttgna aagtatacat tgacatctac ttatctgata gcannactgc   540
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<210> 7925

<211> 579

<212> DNA

<213> Homo sapiens

<400> 7925

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ctagtgtggt cagacactgg ctttttattt ttaggataag aaaacaggca tattctttgt   60
ggtccattat ctagagccca tacttgggca gcatttgaaa tttcacctta accacagaca   120
gggctccagg gaagtggaga tgtaattctt acaacaacag ttctgatcat ggccatgggt   180
atgactttcc aggtctcgtg ttcaagtggg gccagaatgc aggagccggt gggcagccct   240
gaggggttgc cttggccgca gcctctgtgc acgctcttcc tgggtgtcctc ttaccggta   300
gctgtgcgct tgttcccggt agaacagcct gcttccagag tgcccaggag tgctgggtcag   360

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ggacagtgcc cgtgaggctg cagaggaagt ggggtccatg gccacccat cntccctcg 420
 cagcagccct ggccagtgtc atcctgggtg aaaaagggtt gcgcacagga taggaaggaa 480
 ccacagtnt gnttactggg cttacaaccg gttgcagcct gggttcttaa aatgganttg 540
 gaaggnaaat cctanaattt tggaaantgg gcttctggn 579

<210> 7926

<211> 587

<212> DNA

<213> Homo sapiens

<400> 7926

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 tacaggcatg tgccgtcaca tctggctaata tttgtactt tttagtagag atgaggtttt 180
 gccatgttgg ccaggtttgt ctcaaactcc tggcctcaag tgattcacct gccttagcct 240
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<210> 7927

<211> 578

<212> DNA

<213> Homo sapiens

<400> 7927

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 ttttaagcaa ccaaggagtt agaactcaga tggttttctt ctttgtaaca gcaacaatga 180
 ccacggctct gtgccatggc aatcactgct gagtgtcttc tctacaatt acacaggccc 240
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 ggtgcttgat cagcattcct tggatggggt aagtaattcc agatgaattt tcccaccttc 480
 ctgagtctca agtaggcaaa ttccttcagc atatcataat tgtaccgaan tgaaaaaatc 540
 tcatatggna attccttgtg gcaaatttat tggcagct 578

<210> 7928

<211> 580

<212> DNA

<213> Homo sapiens

<400> 7928

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 cgtgtttttt gtttgtttgc ttgtttgttt tttttagatg gagtttcgct cttgttgccc 180
 aggctggagt gcaatgggtc gatcttggct cgttgcaacc tctgcctcct gggttcaagc 240
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 gagccaccgg cccaactgnt ccttccatgg ttttgcttcc taccanctnt gatgaacccc 480
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<210> 7929

<211> 580

<212> DNA

<213> Homo sapiens

<400> 7929

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agacacaaag ttggatttat tttacaaga tacaaaatgt aaacatggca aaataaatag   60
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taaaatccat tcagttgcaa attcaagtgc aaaagcatga tgatgaatat ctactattca 180
agtaacagaa ataatataga tgatacaaat aaactatTTT acaaggtagt gattttccca 240
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ctatgctgct gatggcactg ctgggaagta accttggcac tctgtcctac tggcagcact 540
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<210> 7930

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7930

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ttaaataaca gcctgggtat cttcagcttc acgaaacggg tgtaacagtt ttaatcggca 180
cgcttgagag aacctagcat tcaatctgag agcttggcac tcgcctcatg ttcagggcgt 240
gacgatgtat ctcttgcatc tgtctgatgc ggtccttctg ccacatcagg ttttgaggca 300
tagggtatct ctgtgtgcca tgcaagtacc ggtatgggat cctcacgtga caagcagngg 360
ctctacaacg aggttgtggc ataggaggan gaagcatcca cctcttcctc ttncgacaat 420
atcnggtagg cttctttccg atactggtta tcantatcat tactgntTTT ttcagcctnc 480

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tataattgag acatcatntt ttgtaatanc aaaaggntgg ttcttttaan gcttaaggac 540
ttcttggagg caagctttca aggntcttat tn 572

<210> 7931

<211> 588

<212> DNA

<213> Homo sapiens

<400> 7931

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ataaatagca tatgttttgg gaggtggtgg gggggcacag ggcaccagga gagggaagat 120
tcgtgttttt acagctgaca tgcgcttgg gaaaaagtcc cagggaataa cagtttggat 180
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gctgcctgga tattctggcc aaagtggtag gtatcacctc aggtcacaaa ctgccaaata 300
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aaaatcactt ccatcaatgt attcacagca gaaccngtga cttgccangg tttgtgggga 540
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<210> 7932

<211> 538

<212> DNA

<213> Homo sapiens

<400> 7932

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tttcccacct aggttagtta aacatgccca gagaattgtt attcaaagca tatgttcctt 180

taaaataaaa taaactctta aaaagagagc tcaaatcctc aacaaagaaa gacctttttac 240
 caatcgatat catagatatt gatgacatca ccaaattctgc ttaagaaaaa aacagtttta 300
 aacacttttt tccagttgac aaactttgag aagtgtctgt attcgatgtg gcacacaaat 360
 gaacaaaaac tttgatgaca ggagcaatat actgattttac cctaatatct ncacctctaa 420
 acataaaaaa aatctccttt gggattaatg ctgnggnctt cacttggaat tagattcaat 480
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<210> 7933

<211> 598

<212> DNA

<213> Homo sapiens

<400> 7933

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 cctgggaata aaatctccct ttgattaatg tttccactt ttaatgcaa gtgcaagagc 180
 aagggtcttc aatggatgac acaggtggga aagtcataag ctcttcccc acatccccca 240
 acttcattcc ccacacacac cacagatagt ttatgagcta attctcaact ctcttggtgc 300
 acgtatccag gactctattg aattatttat gaagtcaggc ctcaattccc aatagtttaa 360
 agtaatgaaa aagaagata tgaggaaata cattcaataa gcaaaaataa aagaactctg 420
 gaatctgaca tatttcatgt tatgaaagta atggctgaca taatgtcang ggcatttaaa 480
 ggtgagttag taacctnca aggaggatca gactgnttct ggccgngct ttccagaata 540
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<210> 7934

<211> 581

<212> DNA

<213> Homo sapiens

<400> 7934

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tattgcagct ctgtaaggac agactgttcc caaagctcca gccatggcag gaagggaagc   180
aatcagtcct ctgtataaac catttaacca attgaatgta tcacatgttg ataaatacat   240
agaagcaggc cctagggcct acaaaaccag cccactccc aaccacaagg ttgaaagtct   300
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ggctcttgaa taggttagct aagagccatg accaccacgc tgccttgctg tccccttgca   420
tagaaatgta gtgacgtggt ctgaccatgc agtaagtgc aacagcaatt actcaaagt   480
cttanaatac tggcaagaag caccatcat tccangtctgg gaaacagcca tgaccgttac   540
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<210> 7935

<211> 580

<212> DNA

<213> Homo sapiens

<400> 7935

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catgcacaca tatgtttatt gcagcactat tcacagtagc aaagacttag aaccaacca   60
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atgcagccat aaaaaaggat gagttcatgt cttttgcagg gacatggatg aagctggaaa   180
ccatcattct cagcaaacta acacaagaac agaaaacaaa atactgcatg ttctcactca   240
taagtgggag ttgaactatg agaacacatg gacacaggga ggggaacatc acacaccagg   300
gcctgtcagg gagttggggg ctaggggagg gatagcatta ggagaaatac ctaatgtaga   360
tgacagggtg atgggttcag caaaccacca tggcatgtgt atacctatgt acaaactctg   420
cacattctgc acatgtatcc cagaacttaa agtacaataa aaacaaacna aaaaaacagc   480
taattaagcc cttatattct gnaaatgnag gggttatattg ntgggacaaa ctnaaaaaca   540
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<210> 7936

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7936

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gagagcacca ggagcaggta gaagaccgg gcagccatcc tgcgggggct gagaggtgac 300
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acctcangga gttcaggcac cacggcaatg caggagcttc tggcgcttc acctcagcca 480
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<210> 7937

<211> 582

<212> DNA

<213> Homo sapiens

<400> 7937

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ggggagaaaa ttaaacctta tttattttta aagtcaaacc actaggaaaa tatatcacag 60
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caacgaagtt gctatcaaaa caataaggctg ccatgctggg gcaggaacac tgccagctgc 180
acaagcccca ggcaaaaatg gtatttggtg atgggggctg tctctccttt gctctaaggg 240
agtcagctca tcctagccca agttgcttac ttttctccc ttgaatttcc tgttgccagg 300
ggtttgtctc aattgggctc tgtaattca gggggctaag taggcaatgc taggtgtagg 360

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ctttcattcc atatgttcta ataaaaccag gttttcccaa atccagtact tcattttactc 420
 tgttgtaate aagtagccaa ctgctcctct tttactgggc attcctagat ctagtatata 480
 tcacaatcaa aacccccctt ttttaaaggg gaaagtggta ctgcagaatg gctggcantt 540
 tgtacacaca ggcttanggg ccatcancca gtaatctgct tc 582

<210> 7938

<211> 601

<212> DNA

<213> Homo sapiens

<400> 7938

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 aaaagcaaga tttcaatata tacttacaaa aatgaaaagt gctttttcat ggcaagggtta 180
 gatactgca aaagactgaa atagctcaac ttttccattt tctatttttt tccttggaac 240
 tacttgaaga agcactgttt ttcacaatca taataagagt aattaaacag ctagaagcaa 300
 atttagccac aatcctattc caacatacaa acatgtttat tacaacacag taattccttt 360
 aaataatttg tcaacataaa tatgtcaa atgggttttaa atcatttctc tccctgttcc 420
 ccgacaaaaa aagtcctctg gcgctatgag ctatatattg ctgntcactt actgntgaat 480
 ccaaactagt gaaatgatac cgggtaacta ttacncagag cattgacact aanttgaggn 540
 ggaataatga atanttaatg gacctccttt aagcnggaac ntatactttc atgggtgccc 600
 t 601

<210> 7939

<211> 601

<212> DNA

<213> Homo sapiens

<400> 7939

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tattgataac aagtatttta acttacaggt atgataaaag tctaacattt acaaaatggg 120
gatattacta tataaaaaat tgaaagtatt agtttttatg taaaatatta gtttcttcat 180
tctgatacag tgctaaactt aatgtaaagc caaacttcag gacctactct agacataaaa 240
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tcgtcaaaat aacttaaagt attaaaagac aacctaataa cagtaataac atttttcttt 360
cctaaaaaat atttggtatc tgatttaaag acatgaataa cacaatagta acaacttaaa 420
gatcgacaag atataactaaa aatgatattt gggcatcata tctacataat aattgngaaa 480
cacctggttt cctaataact gagaaccatc agtaactttt tcataaaagg acttcatagc 540
tctaaatatg gaatcaaccc tggaagccga acccttacat ggcaaacacc tacgggggta 600
n 601

<210> 7940

<211> 592

<212> DNA

<213> Homo sapiens

<400> 7940

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ttgtggaaaa aaaaagtctg catgcttcta aactctgcta catctgttct gtgtaaaaca 120
tttctcctga taattttgtg ttactttgtt caggctcttt gtagcagctg tgtactgcta 180
atgacttccc ttattagtca gctccagtac tttcttgggt ttgaagcata tagtgtagaa 240
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aggtaggata agagtgttat ttctgctact gctatttttc caaagaagga taacttttaa 360
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ggctgttatt agggttatct cagcactgag tcttttagagt caatgcaccc tcacaattat 480
aaaatgaggc tataaggnc t ggaagcatat tgcaaactat ggtagagatt atccttenta 540
naaaatccct tcttcttita gactaagnaa atttttcccn ggctnaagcc tc 592

<210> 7941

<211> 601

<212> DNA

<213> Homo sapiens

<400> 7941

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ctttgggttt tgttttgatt ctgtttgacc cacttaacta aaatgatact atagatcctt   60
caaaagcaga atcatgccag ttacacatct caaatccttt gatctactta ctctgtactt  120
taagaggtaa atttgagaat gaaaatggga gactccaatg caataacacc tacataagga  180
aaaacacaca taaacaccca cacatatcc ccagcctcaa aactaaagca aggtacacat  240
ttacatttcc aaaccccaaa gcctaaactg tccaggaaaa gattctagct ttgtgggctg  300
agtttatttt gcttctgggt ataaacaaat gtagtgtata cacacatctg tccaagaaat  360
cttgcacaag gtggatttta catgggggtat catgcacaag attaaaaaca agacccaaaag  420
gtggaaattt taaaagagga aaatataaag gctccaaggn ttaactgctc tggggtagaa  480
aagatcacat ctggtgactg aaggatccca gaaaggncca aaacgtccat aaatatcctt  540
ggnttcgnac tggcaaagta gtanttgcta ccngaattcca actggggnaa aagtnccctgc  600
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<210> 7942

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7942

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agggtataaa aagacagatg caaccataca ttttaattttt aaaaatggaa tgtatcttac   60
ataaggattt tgtgaaaaat cttataccta tctgagtatt acagaagatg catatacctt  120
ccagagctca tggaggaaag agtgtataaa caattttgat aaggagtga aaaacaattt  180
gaaaatagtt taciaagaga gaatcaggag gcagaaaaag cttcaagagg catggtcttc  240
agaaattggt ctggaatgct gtttcacttg tatcgatgtc atgttcctgg ttcaatttct  300

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tgaactccac cacttgggaag aagacgtgct caaggatatg tttggcatcc tgttggctcct 360
 ttggtagttt actgggttac tccaagaata tcaccacact tcctgacata aaattccagg 420
 tcttcttcag tacacttatt gggaatctga ccagagccgt gccttcttaa aggaaaaccg 480
 tttcatctaa atcaaaatag cttcngaagg aggaaggggg taactcccgg naacctggga 540
 nggaaaaacc caggctg 557

<210> 7943

<211> 506

<212> DNA

<213> Homo sapiens

<400> 7943

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 ctgagaagtc ctaggcaaat gcactttggg gtatactaca gtgttccttc agtctgcaca 120
 aagattaagg taatttacag tcaatctgtg aatgaatgtt gagacaatgt tacattatgt 180
 gtctgtacaa ttaattgtcc ttaaagagat aaccagaatc agcttttcta ctgtattttc 240
 aacaaacctg actaaccggc acttttgctg ggagatgttt gtcaaagatg ctgtaagatt 300
 ctatacaatt aggaaatact cagctttaag agtattttct tatcttact tttttagtta 360
 caggtgtttt gctcagagag cctattgcag tatgtttcca gaaatgcagt cccaaatgtg 420
 catactctat attggataca aataaaacaa aattatcagt agtataaatc ttacngcatn 480
 gnttgcnaaa antgcatgcn aangtc 506

<210> 7944

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7944

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atcgcagcta ttaattcaca gcatagaaaa gtcaaagcta tagcaaaaaa ttgctaattct 120
gcacaacttt aaaaaatagt tcagtacatt tttgttataa aattcattta caggagggtta 180
ttcacatgta cttgtcaaatt ttactcctga taattcacia aaacatacaa ctcaacaaac 240
tgtgcacaat aaatccaagg caaattatat acaaagaaac aaaacaagct ttttaagtagc 300
acatattcat ttgaaataac taatattgaa agaagacagg gaactttctt ttaatgccat 360
ggcaaagacg aagcgaagag ccacacttca caccttgtaa aaagaatagc cctgttcaac 420
aacgctgcgc tgacagccac atcaggaggg gccacgggtga acacaggaaa tggctttggc 480
aaatcttgtc cactggaacn agtgaaagtt caaagtaatn gggaagncca ctgganttcc 540
tntgaaangg cngcaaggaa 560

<210> 7945

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7945

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acgtttgaaa cattaacaca cgtggagact gctaaatcat ttaatatcc ttttgcaaaa 120
agataatttc tttaggctgt gatacctgca ataaccaatc tgttctcatt tggatcagat 180
ctttctccct ctgtcctgga gatctcacag ttcactttgc tgaagcaatc tatccacttc 240
cctatcgacc ttgcttatag cagttcaggt atagactatt tgagccttat atactaaact 300
gttaagccag tgcgtgccct atgccctgct gagaatagat tccttctgta cttgcagccc 360
tcagatgctg aattgatcaa tcaatttttg agacggggctc tcctctgtca ccagggtctg 420
agtgagctgg tatgatcttg gcacactgna accttcggct tctgggtcaa ggggatcttc 480
ctggctnaag cttccgagta gctggnanta cnggnacaca ncaacatggc caagttaatt 540
tc 542

<210> 7946

<211> 516

<212> DNA

<213> Homo sapiens

<400> 7946

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aatgaggag atttaatgnc ttacattat acatttcaaa ggaacaaaac accctttatg 60
aattttctca tggagatagc atttacatca cagagctgtt gtgaaaataa aataagaatg 120
tacagcacac ctggaatata aaaaacatcc caataactta ctggagccc cgcagccatc 180
catccctcac atataaatac aatgaaccag atgaagatcc gtgtccgtgt ccatgacagc 240
aatccattca gaagatcaaa gataaatagt ctaatacacc aatttctgac atttgcttag 300
cactgcagga ctcatgaaga gctgccactc atattatctc atttaatccc tacaacaaaa 360
accaaggctc aaggaggtga gtccttgagc aaagaacagt aacagactcc acaggtttgc 420
aaaacagcca tatgacagag ggctgaggaa gcctatgata gtaggctgag gaagcncang 480
ttgnactgga gctntgaaan tgntctanca gcacga 516

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<210> 7947

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7947

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catgactcag gaatgtatgg actttattta tacttctata taatttttat aattaaaatg 60
accctgtagt caataacaat ttaattgtac attaaaataa tgaagtgtag aattggcttg 120
taatacaaag gataaatgct gaaggtaata gatactttat cctgatgtga ctaatacata 180
ttatatgcct gtatcaaaac atgttatata ttgcataaat atatacacat ttggccaggt 240
gcagtggctc atgcctgttg tcccagaact ctgggaggcc gaggcaggca gatcatgagg 300
tcagaagatc gagaccatcc tggccaacat ggtgaaactc catctctact aaaaatacaa 360
aaattagcct ggtgtgatgg tggacgcctg taatcccagc tattcgggag gctgangcag 420
gagaatcact ttgaaccggg gaggtggggg ttgcagtgag ccaagatcat gccactgtct 480
tcaanctggg tgacanaacc gagaattcat tttcaaaaaa aaccnaaca agttntngcc 540

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cctgtgggcc cannttcttg gg

562

<210> 7948

<211> 535

<212> DNA

<213> Homo sapiens

<400> 7948

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 tgacattcag aggggcgagg tttcttgaat agccaactag ccgcaaaacc tacaagagaa 180
 gtagatTTTT ttaaagtgcc tttaaaatgt gaaagcaagt aatgtaattg ttgaatctat 240
 ttgaaatTTTt aaaatTTTct ttaaaatggt ccatatggta tgcacaatat cacagctggc 300
 acaaaactgc ctgtatttag tttgaaacac aaaaacaatg catatgaaca gtattctttg 360
 aaaagtaatt caaaatgctg ccactgcctc ataaaggcaa acttagatna gagtggtgac 420
 agtattcaga gaattcacia aacaagctga tattaaagta ttcagacngn taccttggat 480
 tttttcaaat ccncnggtna agggtaaaag aacttggttg ccaagtactn aggan 535

<210> 7949

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7949

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 aatgtcttat ttttattgtc ctctgtaa atgtcatatac agttaagatg ttcccaaaag 180
 gatttttatc gtgtaaagga gcgtacatga cgacctctac cactgcctcc actaacaac 240
 tttctcttg agcctccact gccgtatTTt gcactagccc aggaaggtcc aagtccccca 300

cgacctctag aagcacggtc ccgaggactt gggcggtaac ctgtagaact aaggggtcgt 360
aatggtggaa gagggcctct gttaaaattg ctctggcctc cacgactttc attgnaattt 420
cctcgaggag tattctgagc actccaactg gagcctcttg gtccttnccg acgactgnag 480
gttcnntttg aagcangtgg tgtgaaaaac cctattctga ctggggnaag cccccggcct 540
ctttattggc tgaaaaacca cc 562

<210> 7950

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7950

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tactaaaggt ccttttaggg gaaaacaacc ttaaaaatac agttctagtc cttgggcagt 120
gaacaaagaa aaaatgtgct tgagaaacac agtccagggt aaaggaaaac tctcagatcg 180
gttaatgcag ttgaattttt gcttgagaat gtgagcaacg tatcagcaaa tacattcatt 240
cttgtgctac tcttcattat ttagcataga gctaccttag gtgtttctac acatgctcta 300
aaccaagagt aagttaaca tgtcagcagt gaggagtaga cathttctac tatagcacac 360
tgggagatgt ttactggtac tctaggtaga aatgactcca ttgtccacta agtttgggaa 420
ataaataata tggcaacatt gctactggag atacataata tcagaagcct aactattaag 480
agatttgatt aacgagactt aagcttaatn cagaantttc ccaaanttat gggnacattg 540
ggacatcatt tttcatagcc n 561

<210> 7951

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7951

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 aaaataagct tgaaaaaaaa tcacatccat tttacatgca tccattcatt acttctaatt 180
 gattatacta cagataactt aagccttagt tctttctctt taaggttccc cccagtttta 240
 cgagaggcat ggacataatt agcttttttc ctttagtaaa aatgtgttat gtgctgtagc 300
 atacaccaga gcttctactt tccaatcagg caacacagac tccgagctgc ttttggtttt 360
 ggtccctgga ggtgtatatg acaagttgac agaaacaaaa aggtgaagac cctgctccac 420
 ccagtataga gcctcttttc tttgnggct catggaaacc tattaacatg ccttcacata 480
 agtctctata tataaaacta tcaggcatta tgaaatnaat tgcagtagag ncactttgga 540
 naaagtgcta t 551

<210> 7952

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7952

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 aaactgtaaa tacggaacta ggcacatctc aatgttctgt ctctgtgttt acattactgg 180
 ataagaaaat taagcattct tcaacttttc tatgggtcct aaaattcatg gaatatgtgc 240
 attttcctaa tgacccttta aaactaatac cacatatgaa atgttatcaa ggcagaaaac 300
 tacattaatt tcgactttta taagatgtaa ctcatataac cactaagcta aagaataatc 360
 tgaagtctca agtgggcatg atgatcttat ttccatcaaa cactaaaaac tggctctgtg 420
 cagattgagc tctccttacc tttactgntc agttgagagg ctcttaattc tctaaaggta 480
 gacnaactat gcnaaactgn caattaaaca gnggatcatt aaattcctta taaaccttaa 540
 tgggnccc 548

<210> 7953

<211> 541

<212> DNA

<213> Homo sapiens

<400> 7953

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cagtcacag aaagtcacct atgagttctt aagaaccaca acacatggca aacatgatat  180
cagaagtcac cttgtatacg ccagttcctt ctcttcacag tttgtttct catttgaaca  240
tccaaagaca gttttgcgag ctgtgtgcag tcaccacagg ccagtggagt cactgtcatt  300
gtgacaatag gtagttttca ggggcacaga cttgtgctg ggtgatggaa tctaagaccc  360
atttctcaga cagatacttg actgttgctt tcttctttcc gctgtagggc ccgatgacga  420
tgctggcctg gcgggggact tggctgacct ggccttcgna caggtggact agtcacagaa  480
cttgggcact ggggggcttg ttggcangcg aaacaacatt actggcttgg ccggcaaaaa  540
g                                                                    541

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<210> 7954

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7954

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acaaatactt tattttattg attatagtga aatgcctcaa aaaattccat tttagtcttt   60
gtaaagtcct acagttttaga tacacaaacc catgcatgtc tgcttaggca gaaggagcag  120
ggaattacta tttgttgaat gcctattagg tgctgtatta gttcttgtac tgctataaag  180
aatacctgag gctgggcaat ttataaagaa aagaggttta attggctcat agttccacag  240
gctgtacagg aggcattggca ggggaggcct caggaaactt acaatcatgg cagaaggatga  300
acaggaagca ggcacattga acattgctgg agcaggagga aaagtggggt ggggaggtgc  360
cacacacttt tagacaacca gatctcacga gaactctatc atgagaacag ctctaggagag  420

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acagtataa accattagaa accacccccca tgattcaatc accttccacc aggtccacct 480
tcaacattac agattacatt tcaacatgag aattggatgg ggatcngatn ccacnntttt 540
ccggg 545

<210> 7955

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7955

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aacaccagac agaacagtgc cctcatatct gatggctgtg aagggtgca ctcttttgaa 120
acattaagat ctgctttggg ctccctctt cgccctcacc ctccccttaa aatcaagtca 180
ttccacact ttttagtaac atactaaatg acacatcacc ccttgtagc cctgtaaaca 240
ttttttctcc acacaccctc cctctttttt tctctcatgt ctgtgggtga ataattcact 300
aagaaaaaaa ccttaaaaaa caaaaactta cacatttata tctgcactc cccaccacc 360
cgccacccc agttttggct ctctctcca aggcagacaa caaactgatg tggattggaa 420
gtggactgag agaatgaacg gggtcagggt tcanatatcc ataaattctg accctgcagg 480
tccccgggca taccaatgng accacgatng aaanngaac aagttccttg gntacttct 540
ccttgg 546

<210> 7956

<211> 588

<212> DNA

<213> Homo sapiens

<400> 7956

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agaatacatc catgaacaaa ccagataaaa acttctgccc ttgcgcagct tatactctag 120

atcgtaaggg atgggattag caataaattt acataaatc aaccatacct actggaaaaa 180
gacacatgca tggaaattat taatgctata agaatctctt gatatgcagt ttgtattttt 240
gtacttaata taagcataat atattcatac ctacataatca ctccacaggg atttaaactt 300
taagactaca aagagaaatt tattggtaat ttaggagatt ttcaaggacc attctgagca 360
tgctcaattt tgtccttagg cacggtcttt aaaacctaac caccttaca gttgtgactc 420
cactgtccaa aatgaagact ctgagacttt tgggcaaaag aaccatttta agtatttgac 480
atgagaaaga tgacaggatg aatccncatt ctctcanata atctgggaac canggaccag 540
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<210> 7957

<211> 578

<212> DNA

<213> Homo sapiens

<400> 7957

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taaattcact taaatcaaac agacatatgg tgaagaaaac accaagtaaa attaatgact 120
gtattggtat agcaataaaa tcaatcaaaa tattgatgta aaaacgtttc ttacagagta 180
gtagaggat atgattcaaa tgaaaagtac agaaggaccc ttgtatttta aaaaaataa 240
agatatttaa cctatgcttt aaaattaaat gaaccaatta aaaactatta ggacaacaaa 300
ttaaatacaa ttcatatcag aattaacagt aaataatatt tttctgaata tgcagcaaga 360
gtagaatcca aattatcctt atgtaaatca taagaaactt ataattaatt atagatgatc 420
tggaacctta tgcacatttg aaaaaaggga aaaaaacact aaatatacct tacaataat 480
tctaccaggt cttaaatttt tatgagacgc tatgggggta aatgtatcat taaatgnata 540
ggttacccca tgacggtttc taatttatcc tttattnc 578

<210> 7958

<211> 589

<212> DNA

<213> Homo sapiens

<400> 7958

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aagcagtcag aacgggtggt tataatacag aaccatttgt aatcaaaatc aatgtataca 120
tgctactcgt ttacaggtgt atattcagtc gctgaacaaa tctccgtag gggcgctgtt 180
cgtgtgctgg gaacacacag gtcaatgaag agcagccaga aagccccaag ctctggaggc 240
ttccactctc gtgaatcagc accgcttgat catctccttc cacaggggca cagtcagcgg 300
cgatagctga ggctggcagc ctttgctggg tgagtcacag accagaagtt ccgtcgagtc 360
tgaagtttct ggaaggcggt gaagtttctc ctcttctctc tcttaaattt ttttaatttc 420
tttcccttcc ctcggtcaaa ctcttcgtcc cagtcacaa ccacggntc agtccggcct 480
gtctgtggc ttcaatagca tcctgactga ccgccgacat ttggcattc caggcagaac 540
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<210> 7959

<211> 512

<212> DNA

<213> Homo sapiens

<400> 7959

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tgtgtgcaaa acgaatccat ctaccgtct cactgtcatg atttaacaca gcaaggtaga 120
tacactggtt tccagcatta caggcaacac tagatgtact ttttttaatg aataatgtaa 180
acttgagttt taaggcagcg ggtactaatg ctgcacacag acttagctcg gtgcccattt 240
cagaaacggg tcagtcagca ctcgaaacaa gaaactgtga ggggagaaaa ggggagccac 300
cagtgtcatc tgacaaaaac gatccgtcaa agtgttttcc ctttcacacg cacaaaatga 360
aatatttgaa catttagaaa aacaaagcac ccattcccacc aacttcggcc tgttctttta 420
caaataattc aaaatactgg taaataatag tgactgctag cagaattccg tgccagatcc 480
aatggncccn agnangtcan ccngcactng aa 512
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<210> 7960

<211> 593

<212> DNA

<213> Homo sapiens

<400> 7960

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gttttttttt tttttttaag taaaagaaaa tttattatga aactaaagga ataaaagaat   60
gaccactcca taggcagaga aacgtcactt taaggttttg acgtcaattg atttttgtcc  120
aatcaataa ttactgcaat gattgaaaaa tgattattac taagtttggt ttcattgtct  180
caaggtctgc tgaactctgg atccaggctg tgtcaacagg gtagtgtggt gcctcctgta  240
cctgtcttgg cctcctacag tcctttttac ttattttggt ttttagaata gagacagggt  300
cttactatgt tgctcagact ggtttcaaac tcctaggctc aagcaatctt ccagcctcag  360
cctcctaaag tgctgggatt acaggcatga gccaccacac ccggccaagt tctttaccat  420
cttcagaagg cttagcttgc acttttggaa gaagaataga ctcccaggaa gactgtgaga  480
gagatttggg gcccaaattg atattaacaa ataccctgaa cttgctggat tcaccatggt  540
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<210> 7961

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7961

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aacatcaaat ttggttttatt tcaagtttgt aacaaaatat attctaggca acttttcaga   60
cattgtttta tagcatcata aaccccatat cactgctgtc attccaaaag ctgccaggac  120
actggaagtt atcaagtggg ccagccctgg aatacaggta gaattcacat gataggtgat  180
aagaaagcaa tgtctgtggg ccactctgat ccctcttttt accttggtag gtaaggtatg  240
atcttaagac tatatgtact gagtcctatt agtcagtga aaagattaaa gtgacaagtt  300

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atgtgctttg ttcctatagc tttgaagttc atccacctca ccagcaattg gaaggtctca 360
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 gagattactc aaggagaga acaacagaaa cggaagccat gactactgcc ccaattctag 480
 attangttan anggtagaat aaattaacta atggggaatg gtantgggta gcagcanacc 540
 cnagagacag aattgngggg gttcctggac ttaaca 576

<210> 7962

<211> 589

<212> DNA

<213> Homo sapiens

<400> 7962

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 gttacactat attgcaccat gattggaaat gagccaaaac ctgtctaaaa gatgaacatt 120
 ccagagcaaa cagcatcggt ttacttgggt taagtaggca tgcaaacaac tcattataac 180
 ataattgcag aaataaaaat tatgagtact ggcaacctaa acttaacata taaaagaagc 240
 acttcataac taataaagta ttaaaaactt taaaacatgt catttaaaca atcccaccat 300
 caggaaaaca tgctttgaac cattttcaag aagtgatcat gtgaatgcat taatttactt 360
 gttttaaatt ttttgttgtt gttgttaatg cttatatatt ggaccaatgg aacacatttg 420
 tttggctggg ggttcagaca cacagtttgt ggtgtgaaag acattttctt tncctcgnac 480
 aataccggag gaccacagag caatccaatt ctaaacttga ccttataata ccatnttcca 540
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<210> 7963

<211> 578

<212> DNA

<213> Homo sapiens

<400> 7963

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 aaaatcataa taçaaacaga gctaaaatca cgctaacaaa ataaactaaa tatgaaaagt 180
 tgcattgaaa gggcatcaca ttattcttaa taggatcgtg tagaaacatt ccaatggcag 240
 tgttctcaaa ataaaacaaa attacattag aagacctcca gcctggccac ttttgggacc 300
 ttacctgtaa ctctggctgg tgggtgtctt tactcttgta ctacatggct cacttacatc 360
 agacatcata tttgtatacc ctgagaaatc tgacactgaa gtccttactc tatgggccac 420
 ttctccatta gagttagtga taaaggatcat tggcaccctg ctgcccgaact taaactgaga 480
 ccaaacgctt ggtgccaaagg tctcaatctg gaacngtggc ctaagctcta tgnctttctg 540
 aggactatct ggctagctac tccggaatgg aactgnaa 578

<210> 7964

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7964

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 acaaaggagg gggagggcac acaaagtcac cacttgagga ggtggaaggg cggcacatcg 120
 gtaaaagaac ctcaggacag ccacatgctc catgccctgg ttgggggaag agggagagaa 180
 aagcgccatt gatagcttgg agctcgtana agggctctgaa gccctgaac ctaacaccag 240
 agccacaagc cctgcccctg agggctcaca cactactaca caagtagaca cacataacac 300
 acacaagaca ttatgaaggc aacaccgaga ggcagtgggc aaggacatat tgacagaaaa 360
 aggaactgaa gttaagcagg ttagaccagg agagacaagt ttttggtgc ggccccaaga 420
 gtccctcaaa tgtcccctaa atctgggctt ctgttgagca cccgatctt tgcctgtgaa 480
 ccgggctctt tggctctttta gcccangga gtggaaaacc aatcccgatg aagtcttgga 540
 caagnaggat ccttttttat tcaa 564

<210> 7965

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7965

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acaaaagatt attttattaa ttcaattttt gcataaaaga ctgttaaaag aacttgctaa   60
cttgaaaaca attttgagta tttatgatcg ttccaacctg aaaacacctg aaccttatag  120
aacagattgt gttaaagcagc cagggccaca ggagtgaaag aagatggaga cccgccgtct  180
ggtcattgata tgagaggcct ggacagtgc ctcacgaaca aaaagaaatg atcctcttca  240
gtccaaagtg tgtttgtgag actaatgact ccatgccctc acatggccac tcctctcaca  300
gcagacagct tcactccgct ccagccccgg tactgcggtc tgtggttaatt tacatgggaa  360
tgggatgaga tctagtagtt ttagatccaa cgcaattctg ggaagggttg gtaataaacc  420
aaaactcaat ctatgcagta tttaaaaaat aagtgagaag ttgtgacaac ttcgattctt  480
ttcaggangt gctggcttaa gatagaagaa aggatcagc tcttatctta gaagcccaga  540
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<210> 7966

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7966

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actttcaaag agcagaggaa cattttatat agtgaacaca tacacactgt ggcaatgtaa   60
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aatTTTTTgt cagtcagccc ccatcccat ccttatctt cgagtgcct taccaggaaa  180
cctggctttg gtggaaagga gagctgtggg gcttggggag cctgatgcct tttcttttgg  240
gaggaaaggc cacctgcaca atccacagga caggagtggc cagcagctat cctgagctga  300
ggctccagaa gagttcagat ccaagagagc aagggatgaa tggaaggaaa gtcccacca  360
ccttcatgtg taaagtgatt ggcatttact caaatctaaa tctactctc tcctccctgc  420

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aatataccat tgagcatgtg ccaaataatg gtttgaacaa aagccaacac agatgtcaac 480
 ctggggcact ttaacctaa gaaccctac agncgagccc ttanccctaa tgacttaggc 540
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<210> 7967

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7967

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 gggactcagg cagactccag ggaggaggag ggggttcac ggctgacgcc caggtcacc 180
 ccganagggc ctctcctccc agccaccag gggcananng gaggcaggga cccaggctcc 240
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 ggttgtccaa agccaacgtg tgaanacggt gtcttgtgaa aaatgtgcac caatgtgcct 420
 ctggggacna gtgtaancct gccccagna gggaagccct ttgccacttc caatgaaaag 480
 ggggcttggg gcangctcac attggtctgg gtngcaaag aaggnetctt gttnaccca 540
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<210> 7968

<211> 535

<212> DNA

<213> Homo sapiens

<400> 7968

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agggaggcag gccggccgct cccggctgca ggaggagaag tttttttttt tttttggttt 180
 tgttttgtgg ttattttttt ttacaacttt aaatacggaa tataaataaa ttttacattt 240
 aaaaaataaa aggaaagccc ccaaaaatat aatcacgcac ttacaaaact gaaggaagca 300
 ggttttggaa ggcggaagg gggaaagtgc attangtgnn aagggaggtg ggagctcaaa 360
 tccccccca ggggggtcttg gggaactttt cccttctctc cccattccc agcccacgag 420
 ctggtttcct aggaggagcc accagaggtg gagcctcana aagggatcaa ngaatgggna 480
 aagtgttcan nccatggaag ggnttcggg caaaaagggc ttganccttc cttgg 535

<210> 7969

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7969

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 tagaaagagg gaaaaggaag gcccaagaac tcttaaagag aggctgagaa caagaacaaa 180
 aaaaccaga agtgtaggta atacgtaaca gcgcagacag aaccgttgta ggccatgtat 240
 aataaataat gcatgcccc aatttcagtt aatcatataa tttcaacttg agttctaata 300
 ctggaaccag ccaaccactt gggcttcaac actgtactag atgtcagtag aatcgcttga 360
 tggaattaca gccttgttac agttgagatc aagagagggt gctttttttt tttccttctt 420
 ttattaaagc tatcattcca ggctttgatc aaagatccaa gaatatttgg tctaccaggc 480
 tggaatgaat gtggnttgga agtcagagta catttaaaag ctgcaccaa atttngtagc 540
 ccacaatctc aaaatttgga tcanccaaan gaga 574

<210> 7970

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7970

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ttcaagcaat tctcctgcct cagcctccca agtagctagg attacaggca cacgccacct 180
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gccctcacan gatgaagttt gagaactggg tatgaanttc ttctttaact gtcagtatga 480
attcancagt gaagccatna gggcctggac ttttcttga agggagactc ttntaactg 540
attnaatnn 550

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<210> 7971

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7971

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caggatgatg cttcaggaac tttctgggca caaagtgcct cttggtggac aatttttaaa 180
aacacacaga gccacgtggg tcacctattg tcaccaagag aaaaaagaac ctcaaaatca 240
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ttcctttgaa aagcaggatg cttgccgnca tggncnaatt gaagctgtnc acaccaggca 540
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<210> 7972

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7972

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ttgaacattt ttaagtactg tattttctct attgtaatat tgactgtcat ctctgtgcag   180
gttttttagt ggttgctcta ggttgaaacg ctttgaattc ttaggtatct aagagtgagc   240
attttctttt ttgactgct atactctcac cagttgccag cttctcatat aaatattgta   300
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cactgcttag agtagttggt ctccagtact aggaactatt ggcacatctt tatctctgct   480
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<210> 7973

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7973

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catggtggac agaatgcgtt tatttctcca gtttggccta ttttaactcc tacatacatg   60
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aagctccttt ctgcccaaaa ggtctagact gccagcagag gccctgagac aaaggcactg   180
ctataagatg cagactgtat catggcacag tgggaaagtc accatgtgca aaatccacgg   240
cttgcctgcc tctatgcctc agacaggaac aaatcatggg atggatctgg gatctataca   300

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acagctccat gaggcaggac aatcatatga ggttttatgc tgaattacac ccattttccc 360
aatgaggaca cataaaacct cccaaacatg tgagaagttt cagacccaaa tataataagt 420
gatgtatagg catgtgacct gcgaagtgag tttgtcaacc ttgtttcact tgagtgtgaa 480
aaatgcttta taattttgat aatcttacct ttagcagctt ttttaagaaat aacttgctcc 540
aagggcccg ccccatnggc ttatgcct 568

<210> 7974

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7974

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atctaaatat cctaacagaa atgctgctga atttagccca ggtgaaactt ctgaaagctc 180
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atgtggaggg gtctgtgcag tctggtgtga gtgcatctcc aggangtctt gggaaacact 480
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tggtccacgc caatnctgga tan 563

<210> 7975

<211> 586

<212> DNA

<213> Homo sapiens

<400> 7975

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 tgactataca taattggttt ttttctgac ctttggaatg ttagtttcat gtaacttttt 180
 aaaaaattaa aacattgcag actaaatgta ctgataagta catactgaac acatttaatt 240
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 atctctggga tttctctatt atccacaatg agagtatgaa taatcccttc tttccgcttc 360
 ccactactga cagcctttat gtaacagtca tgggtcccgga tactgaagtg agtttcaagt 420
 cccatcatct acaaactcac ccgctgctcc aattttttac cattgaccat acgtccatag 480
 catctttttc caaaacaatt ctaaggcttc accatcctgg nggtaatanc ccaagantgg 540
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<210> 7976

<211> 501

<212> DNA

<213> Homo sapiens

<400> 7976

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 taaaggatca tttgattttt aaaaatgtca gcttcatcac atgatgttcc agagatctga 180
 ccccaaaagc ttctcaagtt ttactatcca tagtgtcctt atttgtaact gagaccatc 240
 cgttattttc catctgaagc ttcttcagca gtttataaca aagtgaaga agttggacta 300
 agagagccat catggatctt gncctcgtaa tacacttgtc aacctttaga aatactntat 360
 tctgcaaaga agtcttagtt actgtctgga gctggtggca tanaggaatt agcttgttat 420
 ttccaggaga ancataagct tgnccatngc tttcaactgn ttttgaaaaa gcttgnacnc 480
 tggaagtaag ctttaaacc t 501

<210> 7977

<211> 584

<212> DNA

<213> Homo sapiens

<400> 7977

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cagttaggaa gcatctttat ttggcaaatg aggacactga ggctcaggga aaaaaagtga 60
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aacaactgtc tcttagaaat aaaagttatg tgatttcttg ctaaaagcag ataaataaat 180
gagcagacaa ctaagatcac ttcacgcat gccagagctg tctgtccaag aatgcaacca 240
agcaaaaata attttgtctt caaaataaca gaaaaacata ttttttgttt gtttaaagca 300
tagaagtact attattaagc acaaaaataa aaaaacgttt taggtagttt gaactacaat 360
ttaaaactga attatataac aggtgccatc tagtggtata aattaaaact gcacagaatt 420
ataactaatg tgtagttatt aaaagctaaa ttatatccaa agcaattcag ngatgtcatt 480
gctcacaatt caaacttttc ctgaatctgg atgcctgnct ggtaaagac attactattc 540
attttctcaa gtaaaatggg aaantttgac ctcnnnggta ctat 584

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<210> 7978

<211> 589

<212> DNA

<213> Homo sapiens

<400> 7978

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gagaaatgta gttttattaa tagaagggca tgtcttacca tacacactgt cccagataa 60
ataaaatccc aacatctttg aaagcacaca aacacacagt ttacagggt acaatacaaa 120
gtgaactttg atgatgttct tacttgcat tactaaaaat ctgagaaaga ctgtaatcag 180
tctctaaata attatcttgc gtaaagagaa aagtagagca caatatatat atatcacaaa 240
ccaaatcaca ctctctgtaa cattacaaca tggaatttac ttaatcaaaa ataaaagcaa 300
actggctgaa gaaggctgta tcattttttt ctcaatatta cgctaatttc tatttttggc 360
atgaattatt aaccttttcc attagtaggc aaatgtgctc tgcaaattct cggatggcac 420
cacggccacc attacatttg caaatgtatc caacagcctt ctgggcagta gaacaggcat 480

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cagcaggagc cgccacttan gccacttct tttagcactc ttcacagac acttcatttt 540
ccagaaatgn cacttntttt cangacaggg cttttctttc ttcantcan 589

<210> 7979

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7979

gtttttttgt ttttttttgc tttcttggtt ttttaatgat tgtaaaaaat tatgcatgat 60
cagtacagaa aatagaaatc gaggaaaata cagagtaaaa gcttctataa taacactgag 120
acaactatac tttcaccatc actgtatctg tagcaggat cgtacagcag gtgcttttaa 180
aacagttggt gaatgaatga ttactgttaa tatcttgcaa acatcctttt tggctttcag 240
accaaaaacg aatacataaa taaatccttt ctctgggttg tttcacctct aaaccagaag 300
agctcagtaa agccaccaga gactaaagct gttaggacaa tatcaaactc cttacattgt 360
aatatgtttc acaatgacag ttgatatctg atgcctatgg aatataagga aacaataaca 420
tttaatccat cattctgata ggcacaatat caanggtggc tcaattttga gcaatatcaa 480
gaaggctgca aaacagtnca cagtacttta actnaagcca gaatggcttc ggcacctggg 540
aaattggctt gcctcctnan c 561

<210> 7980

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7980

cacttgaggc actaatttat tagccttate acaatatcaa actgtgagct attctaagac 60
acacatttat cagtttgat ctagctaggg ttgtgtagtc taaaaagctc tccaggcgat 120
ctgttttgca gtcctccccg taaagggaaa aaccatgata gcgatacttt ctaattttaa 180

ggcgtatacc aatcacatgg ggatttggtta agatgcaa at tctgagtc at agatctgggg 240
 ctaagccagg gattctgtgc ttctaacatg cticctgggt gataccgagg ctgcttgtct 300
 gcagaccaca cattgcatag taaggcccca gaacatcaaa tattcatctg aacaaagtaa 360
 tataaatatc ctcaggtatt tcctcctctt acacactgta ttcccagctt caaggcctgt 420
 agttcttttt tctcanaggg cctggaattg gaaaagagat gaggaattaa gaagatcaca 480
 gcggncgtgag ctgcaa atcc tgcctangag cacacccgtc cntt gangnt caattctctt 540
 caacaatttg ncnct 555

<210> 7981

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7981

atgttaaagc tgatatattc acaccataaa ttataacaac acaggaaagt cctttatcaa 60
 agccataaaa gtgctggaag ccattaacaa ggnaatttct acttctaaaa attcagggtta 120
 aagaaatcag aaagcaagta tccacataca aatgtataat agtgaaacat gatagaaatg 180
 actcaagttg tgggtacctca aatcattagg ctactataga aataaaacca gtatcttgta 240
 ttaaaaattc caattcatta ccctaagcca ttccatgcct tctacttggt accatcgcat 300
 cactcctcca gtgaagtgct ttggttggtg aaaagggtact ggctgaccat tacacttccg 360
 gactgggtca aaaaagaatt tagtattctg cctaaccgtt tcagacaatc tatctttaat 420
 tatactattc gaatctttat ttttctgaag atcttccaca cagagattan tagangagga 480
 gttttcatnc tcattctcctt ttaatttttt anncccagcc aaaattncta agagggtggg 540
 gaaaca 546

<210> 7982

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7982

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catagttcat agtttattac aaatgcatat tatccaactc agtagaaatc catgtacccc 60
agaatgtaca gaaggtatgc aatgttccag agtgtcattg tcagctctgg ttttatatat 120
atattaaata tatacatatt ttgagacagg gtctcgctgt caccaggct ggagtgagc 180
ggcacaatct cagctcactg caacctctgc ctcccagcct caagagatcc tcccacctca 240
tccttctgag tagctgggac tacatgcgca tgccaccaca cccagctatt atttttat 300
ctttttgtan agacaagggc tcactatgtt tctcaggctg gtcttgaact cctgggtctca 360
agtgatcctt ctgccttggc ctcccaaagt gctggaatta taggcatgag ccactgagcc 420
tggcctgatt atctgnnttt tgaatagtga ccctaattng cttttccaag tccagtactt 480
ttgataaaan tttttagcaa gggcttcac tanggccac ttctgggcat aatataattt 540
cttnccaang 550

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<210> 7983

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7983

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aaatcaaacc caaaccacta ctgtcctaag cattatgggt cacagaatca agtgaaatgt 60
atggcatttt ttccttctct ccatacaagg gtactctgat caagagctag tctatcaact 120
attgatcaag cttttataat gacaagagt taagagtaac taactgcatg gttacaaagt 180
atgttatata aggtccaggg gatcttcccc aacagtgtag aactgattgg aggataatag 240
taagggtctt gaattgggga aattccattc aaatgataat cctcaccagt ccatggagct 300
tttaagcccc taagcagcca taaacaaaag cccacttgac aaagaaatgg tatgcttggt 360
taccatagga catctcactc ctctggcctc attgcttaga tccttccttg aactcagagg 420
ttctaaagtt acccatatct tctaataaag aagaaaatta aagtcaaac tgngtgaaaa 480
tcaggccaaa aagtctaaaa atcnccaaaa tgggggnatn ccccttttaa ccacnggata 540
gggatanttt cttgnc 556

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<210> 7984

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7984

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gagaagaata aggtacttta ttcttctgtg gcagggaacc caacacttgg gtttacgttg   60
cagggaaca cctgtgatga acaaaacaca tggttagcgat agcccattca tgaaaaagcc  120
cattcatgaa aaactaacag ctattctttt cacagggata gtcaaaaaat gagttgaagg  180
gaaaaaagta tctccagttg gagccaaaac agccatctct agtttgaaaa tacactcaac  240
aaaatgttgg tgattagaga taacaggaac cgggcaaggg aggaattttt acatacgttc  300
aagcttttca ctttgcagcc acactctgat tttatcaaaa ttcctatcca tccaaccgat  360
gttttcttca atggtttcaa ttgtctgttg gacacaacgg agctgagaac cattttcttt  420
caaagagctg aagaatcctt ttacctcttc aagccgggtc ttgtggagaa ttgatttgg  480
gnaccatta ccatggtggc tatgggaaga tgaaccagg ttcaaacttt tggccaagtt  540
tggtncngt ttttctca                                     559

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<210> 7985

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7985

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gtatttgcag gacaagtaca actgaaccaa caaatttatt tagttagtgc tgataaagac   60
agcagccttg agagacaagc agtaattacc tggtctactt aatgatgcc tttgttatat  120
tttacaggca aaaagaatga ttcctcagca gtcattgtga aattttgtgg gccacaagta  180
ttgtgcacac atgatccttg atttagagtc aacctgatgt ccattatagc tgtggaaagg  240
cagcaggcag ttgtgtcgct cttcacaata aggaacacat cttgctttca gcatgtgaga  300

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ggaacaaaag cattgatgta aatgtgcctc aaagtgagaa ctgaaaacat taacataaaa 360
 taaaaaagtc aaataagact aagttcttac aactacctat aaaaattgaa ttattacaac 420
 taaagcagca aatcaaaaaca tctgctgang gtttctggta gaacaaccac caaattagtt 480
 ggggccatgt tcaataagta ctancattgc caaacttaat ccaaatingga aatggaaagg 540
 cnttatggaa a 551

<210> 7986

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7986

aatgtgcaaa ttttaataaa agattagaat atatacaaaa cagggaatg cagtaccaac 60
 aaaattatta taaatttttc agaaagaaat aaaaaatgta tacattaatt ttaaaaacaa 120
 aacaaattga atactcaatg agtaaaatat gaacacagag aactacagaa aatcagaaaa 180
 ctggaaataa gaacagaaat atttaaaata ttggaaaaac agaaattatg gaggtaaaaa 240
 atataaaaaa taacagaaat cttttaaaaa gtgatgtaaa aatgaagaag ctgaacaaac 300
 aaactagaat acaaagatat ttatatcaaa cacatatgta agcacaattt taaaagtcac 360
 agaaaagaga atctcgggag ctgcaagata aaagtgatgt gttggctggg cgcggtagct 420
 caagcttгна atcccggcac tttgggaanc tgaagtgggt gaatccctga aggcaaggag 480
 atcgagantt ggctgaccac atngngaaaa cctggctttc ttaaaatcca acnttacttg 540
 gggggggggc tnatnc 556

<210> 7987

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7987

ctttgtttgt gccaaaaatg aatctctttt tccatttgat tttctctcca tgccacttat 60
 cttcacattt agttgtgaat tttctgttcc atcagaatat ggtccactgg attcctccat 120
 catttcaaca gtttccaaac caggcaacag gagcagaaat tttgtttgg cttgtgtag 180
 tactggtttt aactcttcag gataaaccaa catcatcact ttggcaaaag tggcattcca 240
 gaactgagca ctctgttttc gaatctgttt attcttgtgc agaaatatta tgcataatag 300
 tggggagagt tgttcaagaa gttcactatc ataagttccg gtgtagctga attgcagaca 360
 agcaataatt tctcccagta gcttttctaa cttgttgttc agacaactat atactttagg 420
 aacttcatca agctttgagt tttcataaaa taatgccaga ggtcttggtta aagttgcaaa 480
 tatttttcgg atcatagaag gcaagaaata tgccccagggt ccctggnaat aatggccgtg 540
 aatggagttg cccan 555

<210> 7988

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7988

agagttgtga gtgaattgca tttttattta cgtttaagag tctctctccc tccttgtgtt 60
 ctagtctgtg aatggctcac acttggactt agtgtaggct cctatgggag gagcgggcgg 120
 tagtgagaat cttcatcaaa tggagtaaca tgacccaaat ctctagaggt ttcataattt 180
 tgctcttgct tctaaaaaca taatcatctc ttatgggggtg ttatgtgctt tgtatcctga 240
 aattttccac ttgctgcttc ttgggtgtgag gcgagaaatg ccaccacgtg gcactgcagg 300
 aggagactgg tggaagccac agggctaggc cttcacttcc cagtgcact gttcccaatt 360
 ccctccagga taagctgaga ctctcagga tgtggttctg cagcagatga ggtgcgaaca 420
 aagcctgctc tgccctgggc acccaggatg gcactgagtt ctaaaaggca aanggtatgt 480
 ggtgaagggc caagcttaag gcctggtgtg ggacccttat tggcnnaaac ccnntttggg 540
 gcccgttna 549

<210> 7989

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7989

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gctgaagata aatgtggctc ttttattaat gcataaaaag aagatgtttc gaaatgtgag   60
ttgcagtcag gctggaaaga aaggaacagg gatgtcccaa tacctgaata ggagaggcag  120
cccagagtgt cgatataaac accctttttg aatgaatatt aaattcatcc tgctaagtgt  180
taataggaga atttgctttg gctaaaaact ggggtgtttt ctaccagaga cttgctggct  240
ggtcactgtg gaccctgggc atgagaacct cctttaagat tgggttcaca gtagctacag  300
aaacaaattg aagactgagc agagctgcac cccgaaagca acggatgcta ctatggtaac  360
tcaggattgt acacaatcct tgagaaacca tacccttctt cagataaatg tcaagggact  420
ttcctaagaa atagatacag tagagattta tttaggaaaa aacaatagct ttcaaatgng  480
ctatcccctt accctgggag tagcanaata ancttcgagt attaccatta attggcctgg  540
cctggnaccn nt                                     552

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<210> 7990

<211> 543

<212> DNA

<213> Homo sapiens

<400> 7990

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gatctgctgg ctcagggcc aatgtttaat ttgcttctcc aaagtcgttc atcttcaaaa   60
gtctgattct gggaaactga tgccactagc ctaaaagccc actgaccatg tagtgtgcat  120
cagtttcctc ttgtccagta agcatttate caacagaagc taagataaca tctacagggtg  180
ttctctcttt acttctgaca gtcacctgca tggtcactcc atcggttaag gccagcctgg  240
acctcaccaa taaatcatag ccacctctga atataacctgc cagatagagc gaatgggaat  300
tcttgttctc aggtacttta tcggacctct cacatggctg catgcccaga aatgtgatga  360
tattgttgac agcctcttca agggttttgg tagaactgag ggcaaagggt tcctctttct  420

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caaaggtatc tcccacctct tcccaagcag cagcaaagtt aggcttcagt actttctgaa 480
 tatggtcaga cccagcactt tgagactttc agccatactc atcatatacc catcctattg 540
 gga 543

<210> 7991

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7991

cagggggcca caagagtatt ctcttttttt aaaaaagaaa aagataaatg ggcacatata 60
 taaaaaatac tgtcaatttc tactgggcca acacagtagc cactgcaatg tttctccttc 120
 ttccggagct ttcctcccat agtctcacat gtactcctgg cacagccaca ataccagtct 180
 ctgggaagca tatgtcacct actccacgtg ggtcccatc cagtcaccac agatggaagc 240
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 ggagcacgtg gttttcctgt cctatatctc ctccccccac cgcagataat actgcttcct 360
 cgggtggccc ttggggcaag tcatcaggct ttatgggcca ggagggtggt cagcttgatc 420
 ttgccatcca tggaggcggt gaagcaggtc ccacagtcca tggcagtgct tcaatcacng 480
 ngaccacaag ggctttgggg ggcacctaag nttanacaag ttttccaaac cttttaatgc 540
 cc 542

<210> 7992

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7992

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 ggctacttaa gggcggtttc tgtggacagc ggacacagca ccattaaggt tagcttagat 120

ttgaacaaac catgagcaga cagctaacta catgttatgt ttctcttagt agtttttaggg 180
 tctgcccagt aatcaagaaa ttttacttct ccagaatata tgaacatggg aaccaaagaa 240
 atgtaaatat ttcgaaaaag cactacacaa taaaatgaga cgcaatcctt atgcagggtca 300
 agatgttctc cacatctaca atgtgcatta acaaaattaa tgcagataag accttcactc 360
 caaccccaaa gatcttacat ggtaataact attttccaaa atcagcagaa caagctgcag 420
 ttactttctt tagacattta gctttggaac tttgaatttc aaaggaaaan tgggtataaga 480
 aagctaggcc atatatattag ccattgnanc cctcntttac ctttggaatc atccggggga 540
 tnaatn 546

<210> 7993

<211> 531

<212> DNA

<213> Homo sapiens

<400> 7993

gggttaaaca gtattttattg aatgtaaagt accccagccc catggggaag aaaattccaa 60
 gaacggggaa taatacagat taaataccca cctgtgcatt cacactctca cacacacaca 120
 cacatgccac gcacatatcc aagctccaac ggtgacaaat caaacacctg ttttccccca 180
 gcctgagggga cagctggttag gaggtggttc agaggtgggg ctccaggatg ggctctaata 240
 gcagcagcct tgtctctccc tgccccctgc cctgccccag ggtcaaagg gagctgggcg 300
 gggcgcctag gaggttggcg gcaactcttc cccactctgc cgcagacgct tcttggctct 360
 gatctcattc atagcctctt caatggagcg tgtgtccctc ttattggcca cgggcacaca 420
 agccgtaggt cttattggcc tgtaacatgt gggctgcgtc ttttggtgn tnccttgncg 480
 atgaagtggc tgnacntggc ccttgaancn cttgcaaggg ttaacaacac a 531

<210> 7994

<211> 512

<212> DNA

<213> Homo sapiens

<400> 7994

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ggttgcaaca tgtttaattc ctgctgttca cactggacac tgcatacat tagtgtcggc 60
ccctgagggc accccttcct cgcctgcaca aaggaggacg agagatgaac attcagaggc 120
agaaaagggc aataaaaaaa gagctgtgta tgtgacctcc aactactcag aggtggggga 180
aaacagcccc atctgtcttg cactaaaagg ctcaccaagg gcaggtgagg ggcaaatggt 240
aatactggga gggggtaaca caaggagaag cgacatgagt acaccaagat gtcaaagctg 300
cgacgggctg gatgaggagg cccaagagg gcatatgctc agggtgccag ccggctgctt 360
ttccttgta cagccttgca aggaagctgt gaggccagga cactaggcca gtggcatcca 420
cactgcgtcc ttcaggaagc caggcctntg ngcctcattc ttcaggaagg aaaaccangg 480
ccccccgag ctttttccan tngcaggaag tn 512

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<210> 7995

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7995

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cacaaggcac gccatTTTT ctttatgagg aaattcagtc tggtcacatt gtcagaaaaa 60
aaatctacca aaactaaata gtttctatat ttttttcatt tacaatctct gaatacaatg 120
atctacactt catgaaatgt caccctcag tatccgtgga tgcttggttc caggaccgcc 180
ctccgatacc aatatctgca gatgtcaag ttctgatata aaaatggcac agtattttgca 240
tataacctag gcacatctc ctgtatactt gctaaatcat ctctagattg cttataacac 300
ctaatacaat gtaagcacta tgtaaatagt tgttatactg tattggTTTT taaatttgta 360
ttatttttca tcgttatgta tattttttat ctttttagaa aatattttca ggccgggtgc 420
ggtggctcac gcttgtaatc ccagcacctt gggaggccaa agcgggcgga tcacgaagtc 480
aggagatcga gaccnngtg naaccccgnn ttacttaaaa tccaaaaant anccggcctt 540
ggtggcggcc ccttgaa 557

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<210> 7996

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7996

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ccattaaaa ttattttatt caaattatgt tttccaaaag agagggttct gtgctagtcg    60
tctttgaaag ttttcatacc atttcagaac cacatttgcc ggaatgaaca tttcagatgg    120
gcttggtgtc atctgggcct gagagacagc aaatgatgaa gcaaaattgt agaaattgtc    180
caacatcttt tgtgtgaact gagtgaatga gtcaactgag gatacagcag cattacctac    240
aggagtctgc tgagccatac tgtctaataa ttccactgaa attccaatct gagcaacaga    300
tgaggttcgg acaatattca tggtccaaa aggatgttgg cttccttctc cagatttaag    360
acctgaaatt ttgaagatgg cacttggtt cccattcgtg acaaatccta ggagttgcc    420
tactggcatt ccatttgaat caggataaga aaagttgacn gatccttcca ttccctnang    480
aaatgggaat ggtncagca ttaaaacccc cacctnggtg gaaccttcat natccgnag    540
gccaaaccaa                                         550
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<210> 7997

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7997

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ctaataagag ttaatatctt tgcttttgag ttttttttcc aaccttaaatt attacataca    60
tacacaaaaa attacatagc tgcaatgtgc tcaacagcat cctctcggcc tggagcttca    120
cattatcaaa agcttagaaa acttgtaaac ctctgggcct gtctctgggc actaggagag    180
ccccgccgg ccgtccctt cggattgagc ctgcagtttg taagcgaagg gctgacagta    240
ggccttctag tccaagagag ggctggctcg cttggagttc agtgagctgc acgcctgtcc    300
cagtgtgacc atgtgatggg ggaggggccc tagcacttgc cctggccttg tgcagctgct    360
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cttgccccca gcagcctccg acagaagagc aaggcaccta tagctgttgc tttccctgca 420
gctccctggc ctcaactcca tgtgcatgtg tgaaggccac caccttttct gggcgtaccc 480
ggaacctanc ctggncccna ccttttttaa aagccaggtt aacaaggctn agggcttaaa 540
ccggggtcaa anggccttnt 560

<210> 7998

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7998

atttctgggc tttttatattt attccattgg tctctatttc tgtctttatg ccagtccac 60
actgttttca ttactgtggc cgtatatagt aagttttgaa atcagcaagt gtgagttctc 120
caactctgtt ctttcacaaa attgtttggc ttctctgggt ctcttgagac tccgtataaa 180
ctttagaagt tttctgtatc ttgggatcca ccagggcccc agccttgatg aggtacttca 240
ctgcttccag atggttggtt tcggtctgctt ccatcaacgg ggtcctctgg tcttctgagc 300
aggtgtcaat attagcgcgc gcctgaacca gcatgtggca gatgtccacg tgtccagcct 360
ctgccgcggc gtgcagtgga gagcgcttat tctggtgctc cattttgaag ttgggggtcaa 420
ttccgtccac cagcatgagg agcaccttct gaagctnccc ttgcctggcc ggaaaaatac 480
agctgctttg ggtggaaacc aaacttcttg gggttttncn aatcnanggc catgaaagcg 540
ctttccaagg ttnccttncng 560

<210> 7999

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7999

ccttgggttt gccttaccat ttattgaagg catactatgt actaggtaca tacatgatca 60

catttgatgt tcacaacagc cctgacaagt gggcttctta cccctatttc caaaagagtt 120
cattgaagtt ctgagagctt aatccccgct ttaggctaca cagtagtagc tggatttcct 180
ggcatcagaa cccacaccta ggctgcctct gagcatggct tctgtgtccc agtctcaatt 240
tccatgaagt ttcaggtcct cctgttcccc cgcatttgta gtcactcttg gtgactggga 300
acaaagggt agagcgtgag ctgaaactga gacaggaggt ggcaggcagg cagtggggag 360
agaaactttt ctcacatcca cccatgtgaa gaagatggac aaaaggggtg ggtctttctg 420
gagggagggt tncaagccac tttcccaaga atgctgatct tgggatgaaa tggccangga 480
cctgatttgg ggtaaagggt atgggggtngg ncacattggn tttctggggc ttnaaacttt 540
atttcccctt cctttgggga aaaaaaagg ggaaan 576

<210> 8000

<211> 567

<212> DNA

<213> Homo sapiens

<400> 8000

agtataaaaa aatggaatca ttttatttaa atcccccaaa taccagagat gaagtaaatac 60
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tgagaacagt gtttttgtgt ctttttatca catatccact taatattagg tgtaatattg 180
ctaagtcgga ttcgcatatg aggtgcagca tcaagtcctt tcctatatatt tgtttttgtt 240
gcagcgtaat atgaaaaccc cgtttcacac aggtgcattg tagcaaaagg aagaagtaca 300
cgcactgcac gccttgcaat gcttgggtat tcctgaatta ggctactcca aaaatcattt 360
agtgaagtt cactaaaatt ttgcttcact tgagaatcag atggttaaat caatcaggct 420
ctcataagtc ccgggctact aaatgaagct gggttaacag taactgnaaa tggatttcta 480
accaagcat tattggcatt tggtagga aagtatttta accagagtac gcgcaaaccc 540
cntaagnnc tgacaatggn attgnaa 567

<210> 8001

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8001

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ggttcagggtt gtctttattg atatgttcac tcaccagaga ttctacattc tacgtaaaag 60
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ccaaatgttg gcccatgcta aattatatca aaagaccaa catccaagaa aggcaggaat 180
tcaaagattt cagaagataa aaatgcttga ttgggtccct ggcatgcaac cagcccatca 240
acccctcac tgccctctgg caggaccag aagatgagct cccttcttgc cagagaaat 300
acattcatga ggctctgctg attttctct ctaggcctgg gaggtgctt gaaagagctg 360
ctgtgaacgt gggctccctg atctcagcaa cagagataga cagaaggaac aaaatagggc 420
gctcatcgta agggataggg catggaaacc agacctcgag ctgtgggtcc caggaatgaa 480
aaaaggcnga cgcccctaag atatnggcta antatgncc ttacttaaga antttggggc 540
caacaagttt tngttnaggg cc 562

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<210> 8002

<211> 553

<212> DNA

<213> Homo sapiens

<400> 8002

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gtttgtagaa gctttattca taattgccat aacttaaaag caaccaagat gtccttcagt 60
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atcccagcac tttgggaggc cagtgcagga ggactgcttg aaccaggag ttcaagacca 180
gcctgggcaa catagcaaga ctccattcta caaaaaattt aaaaaatcag ccacacatgg 240
tggcaagcac ctgtagtccc agctgttcag gaggtgagg tgggagggtc acttaagccc 300
cagaggtcaa ggctgcaagt gagccatgat catgccattg cactccagcc tggggataga 360
acaagaacct gtctcaaaaa aaaaaaatta caaaaaaaaa aaaaaaaaaa gtatgctaca 420
taaatacaat gggatattag tgtaagaag aaataaggtn tgaaacttnt gaagatntnt 480

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ggaggcccct aaatgcntat tagtaagtga gaaaagccng tgtgaaaggc ccatactatn 540
tgaattccag ttt 553

<210> 8003

<211> 514

<212> DNA

<213> Homo sapiens

<400> 8003

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gaagtgcagg gacagccttt acagaatccc catctgctga aagatgacac ctacctgac 120
ctcctgaagg aacctctcca cacttttgta ggctttcgtg aacttgtgct taacaatgag 180
ttcacaccac cgatggcgaa cctctgcac cctgacccctgg aggtggtatg tcctctggag 240
gctttgcaga gttcgggggc tcanagtctt ctgctccaag agatgctcca gaagcaagac 300
cagctggtct ggaagaagct tttcaaacac ctcttccttc tccctgcgct tccgttttcg 360
gggtctccgg ttcactccaa tccatttcgt gacctcggcg cgcacttgcc gcgcaagccc 420
gactccgccc cggngcgacg cttccttntg ancggttttn gtattccgaa cttttnaagc 480
cagcntggga aaatgttttc aacaagaaca gntt 514

<210> 8004

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8004

agcagtttaa attttattga cctcccagtt tttaaaaaa gttaaattta aggtcacacc 60
tctaagtttg atgtactata tacagatcgt gcagaatatg agttaacag atacaaatta 120
gtccatgccc aaaaagatat actagggtac agaatcatct tcataaatac atataaaatt 180
cttgtgtaga agcgaactgt ccaggttttc tgagacactt ctaagtgaat caaggcacia 240

aatgtacata caccattgtg aatacacaca ttctagactt tgtgcctctg acatagccca 300
 aggatttagc ttcatgactc ttataaaact aaatgtactg aatgagattc tgcttcttgg 360
 gtgaaaaacc acaggaacta taaacatcat gtagataatt actccaaaat atggagaata 420
 caaatacgac cctttatfff aaaaagcaac acaaaagaat ggtgtaaain ccagtgttaa 480
 atgcctccgt tttggataat ttaantaaga accgatncag gttggttcca gaactatgca 540
 tactagctct actgaggaaa 560

<210> 8005

<211> 541

<212> DNA

<213> Homo sapiens

<400> 8005

ccatatttaa catttatfff actttgctga gcaagaatca tagacagcta ctaccacggc 60
 tgcttcgttt ggacaaaaat aacgaggagg catccacggg attagttaca cggtatcaac 120
 ttaccaccac agcagaatca acagtgactc gctaattaac agaaccgttt gctagaaagc 180
 actaatctag ttatataaat actgaaatag gtcacatgca aaacactata aacgttttgt 240
 gtgatgtact tttagttctc catagttttg tttggtataa aggaaatata atttggtgtg 300
 gacgtanact gttgatgtaa tttcaagtt ttctgtatg gggaaagttg ccctgactgt 360
 ggcccttttc aaggtggagc ctccaacacc acgttggcag attcagactc cgtgaacagt 420
 ctaaatgagc aagtcagctg aatgcccttt caaatggaag ggaaatgaga tggaacnac 480
 naaaaaagga ctggcagcgg acagntttca acccgagnnt tcgntgaatg gnggatccan 540
 a 541

<210> 8006

<211> 568

<212> DNA

<213> Homo sapiens

<400> 8006

gaacttaaac acggagcatt tattgttaga aagggcaagt cttacactca aataggtttt	60
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atgcttcagt tatactgcag cctggccaac cactgttccc tgtagaagtt gaagttcctc	180
tgtattatcc agcagctgga ggagacggag tatggcagac tctggaatgc catttgtgtg	240
agttccacct actttctagg cttcagggtg aatggaaaaa gtcgcaatag gcgaaatgta	300
tttcctaaaa agctggacag aggtatgtga cattcctttg cttacaagc aaaacaaaat	360
caatgagtct ggtgaactga cgccatgaca gcaatgtgga gaagactggg aagtctacac	420
tgggaatggt gctgtggacg ctctgggcac agaagcccaa ttggaacct cttcttaaaa	480
acctgggaag ggtggtgga ggccaancca ccaaaggcgg ggcttttccc anctgcttng	540
ggacaatctc tgggtctcct gggccagg	568

<210> 8007

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8007

aaatTTTTTT taatagtcac attcagctcg cttgctcaaa ccagactccc acattgggtg	60
agcaagatga gcccatagga ttccagagtt aatacgtaac cgtatataca aacagccaaa	120
aaaccataat ggtgccacag ggatggagca gggaaggga tctctaactg gtcctctagt	180
ctatcttcgc taaacagaac ccacgttaca catgataact agagagcaca ctgtgttgaa	240
acgaggatgc tgaccccaaa tggcacttgg cagcatgcag tttaaagcaa aagagacatc	300
ctttaataac tgtataaaat ccaggcagtt ccattaaagg ggtaagaaa accaacaaca	360
acaaaaagcg agggactgtc tgttgactg tcaaaaaggc cttggagtta atgggaccca	420
ggattggagg actcttanc t gatacagatt tcagtcatt tcattaaaan gcttggatgt	480
taagaagang acacttaacn ggttctgaag gaaacccttg anatggancg ttaaaaacgg	540
acagatgaac ncaanggatc aa	562

<210> 8008

<211> 556

<212> DNA

<213> Homo sapiens

<400> 8008

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acatggtgga agatttatag gtaataaagg gaacatgatg tacagaaatc tgaagtgagg 60
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tggaactggtt acggtgctca gcatttgcct tatttgaaca cagctgaaca ctacagcagt 180
tgtgagtggc agaagtttgg ctgttgggat tggccaggac tcagctatag ttacaggtgc 240
atactccaaa gttaggttat cagtccttct acctattaag ttaggttgca gttcgtccac 300
agggactcaa atctagaagt acagagtcct tcccaggcca tatttagttc actgtaacag 360
ttcctattat gacctcactg acagttcttt ttctctgaat tttcctttct tctcaacagc 420
ttgtccaaat gttccattgg gtccctgttc atcccaccct gaactcttct tgactgaatc 480
tggcctttgg ggggttgcan cctgnttctc tacagnittg gcccccttna gncctttcat 540
cggagggtta aaaccn 556

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<210> 8009

<211> 561

<212> DNA

<213> Homo sapiens

<400> 8009

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ggtgatttgt ctcttatctt tttaaagcaa tcagcttatt ttcacagaaa caactctttc 60
agcgcctcatg ttttattaat taatgtaata gctaagtaaa ctatgttatt accaataaca 120
catacaacag gtatcatttg ctaggaagca tcgggtccat cgatgagaac ccaacagcag 180
gtctgagagg tgccggttgc ccagagcctc tcaaaactca ggttctgacc cagcaagtct 240
gaggtgagac ctgagattcc ccccatgttg tggccacag gccacacttt agtagcaaga 300
tggtggctga cattgtacat ttacaaagg aaacgccagt gccagttagt taattcaggg 360

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gatcaagtgg aagtcaactg ggaaagtgtc cacaatgata cttcaacaaa aaaagtaagg 420
 aaaaggaaag gtggaagatg agtatgttaa cttcctcatt tttcatagca aggagtacac 480
 aggtctgnct caagccatca tttcaagaag tagatatctc aatattttgg ttaaaatcca 540
 gtgggccatg gtctacagaa t 561

<210> 8010

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8010

gcaccttaaa agtcattttt aatcctcgac tgtacacaat ccaaactctg gtagcagcat 60
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 ctggaaccgg ttccttaaac aaaggcagac ttcttcagct tcttcagaa tagacattag 180
 acatggtgac agtgataaac ctttggggtg ggctagtctt tttcaacatt gatggagcag 240
 aatttacacc ctctgattca atccatctca gttaatgtca atgatgcctt cctatctact 300
 tctgctatcc aggaaccac ctctttagag tcaatgcatg tgaaaggctc atgatttgta 360
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 angctctctn ctgactacat gtacacccta tatttgata ctattccca ctggagtctg 480
 ctcttaaggg tccagaagca gggtcattgg gtantatcnt aactggcatt gccangtnc 540
 ctaaacagtg ccagtnctg 560

<210> 8011

<211> 568

<212> DNA

<213> Homo sapiens

<400> 8011

gaagtaagat gaggaagacc tggactcata tgctgagagc tctggacaaa gaagtaatgt 60

aaagtagggg ccacagagct agtgccgggc caagtgaaag cagggagaga aagccagagg 120
 caggaaacaa gacaaatgca gaagtgtgag gaatgagacc ctgatggctt cctggttccc 180
 atctgctgca gggccctgct ttctgtgac aggtccctgg aataaatctt ccttaagcta 240
 aatctggtca ctggtcctac tcctagcaat caaatgactc ctagccacag atgtgtggcc 300
 ttgctatgta acacttttcc ccgagcctaa atttccccac caggaaaact ggtgacaagg 360
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 atgggtgaga tgcttacaag acagtagcaa tcatcactgt tccagaaaag gaacctggga 480
 tctganagg aaggggcttn acaangncat gccgatntta agggacgccc cctttttttt 540
 taaccagggn ggggggcctc aaaattga 568

<210> 8012

<211> 582

<212> DNA

<213> Homo sapiens

<400> 8012

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 aaaacacatt ttggatttgg gaaaacacag taaacacata ccaaaaacac agccacaaat 180
 accaaaaaca aaaaccagct caagtatagg attgaactgg ctggaaaaca cttatttgtt 240
 tactgcctta agaacccccc ggagcacctt gtagctcatt aactgcacat tttccttagg 300
 ggggaaacaa ggtcctctct cagtcacata tgcataagga aatctcaaaa cccaaaggcc 360
 atcaggtgga aggggtgattt cttgtttttc tgggtagaat accggacatg gtgggtgggcc 420
 tggctgaacc tgaggcatta gtattatctg caaaggagca tcaggaaccc aacaaaaagc 480
 ctcataagtt gagcataatg anggttcagc cttttanctt tgagaggtgc ngaatatatta 540
 agggcatgtt actattttaag gcttttttaa gtgatccttt gg 582

<210> 8013

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8013

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ctgttgcac cgtgtgagct ccataaatct gctatggaac agaactactg gttcttgaat   60
ggaatcagtt gtgctgtttg ctccctcaga tgtctgcttc ccatagatcc taccagaaat  120
gaagtcagaa tcttctcttt ttctctctag atgctgcaat cgcttggaat cttgttcaaa  180
gattgagctg tgtaaaaaac gagaagcaaa caattcctgc ctctcttget cttcttcttt  240
atggctctct ttcttatcat ccattttccc ttctgaatca gtcctaattt tcttcttttt  300
catgtaccag gatggaatag gtcttggagc agagtcaacc ttttctttat ctttgttggt  360
tcgaaaattt gcaaactggg agtcccaatc aagaaaagac caattttctt cagcagatga  420
agagagggat ttagctcttt caagcaaagc ttiantgnct ggtgtgattg gcttatcaat  480
gcaaagagta aaatttgggc ctttctaaag aactngagag ccttcatttg cttacggaac  540
ttggctttnt ggccttaaaa                                     560

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<210> 8014

<211> 547

<212> DNA

<213> Homo sapiens

<400> 8014

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gntatttaag gatttgttta atgttttaaa attcaaagca ctttaaatta ttttaagaca   60
aaagattaat aaaaacaaca ttacctttca aatacaactt tataacagca cagtggaaga  120
atggtaaaca gtccctcttt ttttaaaaaa aaatcagtac ttaaaaccaa aggaaggctt  180
atatgtacag ctaattcana aagggaacaa tgacacctaa agacatagat aaatgcttca  240
ttttaatcca ataatgtcc tacctactgg atcttaataa tgatgttttc aatatgcat  300
ttaaaataaa ctatccttga aaataaagtt ttaaatcatt caatataatc tatgaaatag  360
catctagtta actagattac cttaaataa ccaaatatta taatcagcaa aataaaaacc  420
agtaaatcaa tttgtatctg aaagcctgag gtctggatct actgggattt taattttttt  480

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tccctaagat taacaatnta aacaaatctt ttinggtactc acatattttg acagctcagg 540
ctggtcn 547

<210> 8015

<211> 569

<212> DNA

<213> Homo sapiens

<400> 8015

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aatataagca tgcctcaatc atccaaaagc tatctacctt tctatataaa ttgatataca 120
tgctactgaa ttgacttctt aatagaatca tatggtaagt gttataatga ctaatcaacc 180
tacttctgat aattttgggtg taaacaaaaa tgatatttaa tttttattaa atcaagttaa 240
cctatcaaat tcccttttag aaaaacactg caagtttagt cttaccaaga ttgcaagtaa 300
attttaaaat tatgggtgctg taaataaaaa ggttttaagt tgaaatgtgt actgagatta 360
gccatatcac aaaagtccta tcatgggtaa tgaaaagtct tatttttaaat atattttggt 420
tccttttctt tgacatggng gcccaagata agaagggtct atttttaaan gcccaagaaca 480
gtttcacaaa atcgaattaa atttattcta ccaaaacctt gaactggnta gnctatcagc 540
aattggccaa tggatggatc caaataatg 569

<210> 8016

<211> 579

<212> DNA

<213> Homo sapiens

<400> 8016

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attaagaaaa acagctgatg atgacttagt aaatccttaa ttttaagtaa gcttttggcc 120
aaaagtcagg ggtagaattg actcaaaatt aacagccttc accatctttt attcattctg 180

ctgtgataca actaaaatgg ccagtaaatt ctcccctggg tctcaggtaa cagttttcca 240
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 ggggtggacag gctgaaacac tggtttcttt ctacttcag agtgtgtttt cactgcaggg 360
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 aggtagactg ccagcaagat ggcctcaggg ggcacctctt tangatggat cattgaagcc 480
 gctgggtggag acctttcggg ctttggcata attcgtctta agcagtaacc gctgccaaagg 540
 ttgacaagat tacagtcctg caaaatgacg gactgggtn 579

<210> 8017

<211> 587

<212> DNA

<213> Homo sapiens

<400> 8017

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 gctacaaaac atcagaagat tttttttaat gtatcttctc tatggtaatt aaaaaaaaag 180
 ttgtgccctt ctagtcttta attggcagaa atatgtccca aaaaagaaac tattgcattt 240
 aagccacatc accaaaaaac aaaaaagaaa aaaaaaaaaa aaagcaaac aaaaaaacaa 300
 aaccaacaga gcataatacc cttttactga tgtgtcttac agattgacat gaccaaagtc 360
 ataggttttc atttaatttc caattcccc ttccacaaca tgcaccaact gaatatatgc 420
 tctgggagcc ataaaatgta ccaaacatct acctnttcaa aagaatgcat taaaatattt 480
 aaagaatttt ttgntaaaaan ggggaaaaaa tttanccaga aactggttcc ttccttactt 540
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<210> 8018

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8018

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gggattagga gaacactctt taatgataaa gccgtgccaa gtactaagga caattagagt 60
aggcaggtga cctgtacaaa gtattagtga taacacaaca ttcagcttcc taagagttaa 120
aacgtgctgc ttacatgaag ggagatgata ctgagctaag aagtcctggt atagagaagc 180
agagagacca acctacttca tattatttat aaaatagaga atattctcag ctaacatgct 240
gggagaaaaa attcttccaa aaaggcagaa ttacaatcaa tgccaagatt tacaaattcc 300
atcatgttta aatataagga caaaaataaa catttcttat ttaaaaaaaaaa cccacaaatt 360
tccccaacta tagcttatct gttagcactt ctttatcagt ctgactattc tttaaaggcc 420
ttaaacaatg aatttgggat aaaaacaaat aaaagtgcc aagntttaag aagccatatg 480
ttacttanga ngtatctata tatttttaga ncaatcaatg gtttttaaaa agngnanaaa 540
ctgggacttt tctctttaaa aaagggtaaa tattcnc 577

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<210> 8019

<211> 583

<212> DNA

<213> Homo sapiens

<400> 8019

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atgacaaaac cagaatgttg aatgtttatt gcatcaaaca acttgatcat tatcattagt 60
agcaagctgc cacacaattg caaccgctgt gtttttgcca taggcgcccg ctgggacacc 120
caagcaggaa ccattgttga agcccgtctc aaggagctgg catgccctat gccggtcac 180
tttgcaaaag ccacccccgt ggacagacaa gaaaccaaac agacctacga gtgccctgtg 240
tatagaacca aactgagagg cccagctac atctggacct tcaggctgaa gagcgaagag 300
aagactgcaa aatgggttct ggctggagtg gctctgcttc tagaagcgta aggtaacact 360
ggcattcctc tagcctctgc tggagtgcag tgaggatttt ctagcatgtt gctgcactgt 420
tcccatgcac attattctaa ctttttagta actcacacgt gcattctttt ttcaacgcta 480
tccttagagt gaaagtcaga aaaaaatact agaaactaac tcanggctga acgtggtggc 540
acacgactgn aatcccagnt actcaggang nangagaatc ctt 583

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<210> 8020

<211> 582

<212> DNA

<213> Homo sapiens

<400> 8020

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gacacagtcc tcaggaggtc ctgagaacat gtgcccaagg tggtcggggc acagcttggt  120
tttatgtatt ttagggaggc atgagacatc aatcaaatac atttgagaaa tacattgggt  180
tggtccagaa aggcgggaca actcaaaggt cggagcaggg gagggaagct tccaggctac  240
aagtgaattt aaacattttc tggttgacaa ttggttgagt ttgtctgaag acctgggatt  300
gatagaaagg aaatgttcaa gttaagataa agattgtgga gaccaaagtt ctttgaagtc  360
taatagtcgc tgcccttaga gacaatagat gacaactggt tcctattcag atctttcaaa  420
aggtgctaga gttttaatct cctcaggatt gggagggtct ggaagaaaaa gatctagcta  480
tgtaacagg agattcttta cagatgcnaa ttttcccca cacaaaacac tttgtagggn  540
catttcaaaa tatgggtaaa cccattttga ggnaaactct tt                        582
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<210> 8021

<211> 572

<212> DNA

<213> Homo sapiens

<400> 8021

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agagggtttc ctagtcatta acatgaatta gtaatgctat aacttaattc aaaagcaatt  120
acttcttaaa aataggcgcc ataccaggaa agcttagcat cagccaaagc tactagcaca  180
ccacgggcaa aaggccaact ntgcagggat atgtaaaggt cattttatgg ataatccata  240
taaaaactgc tctcaagata ttttgcccat canaatttgt ttacaaatgg aaatctaatt  300
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tgatgatttt aggcctttgt gctanaatct cacaaccaga aagaataaca cctttaatat 360
 gaattcttat gatattgtca gaaagtttaa caggagtat ttaactcct gttaaaataa 420
 tagatgacag taaaaagaaa ttcaaagggg aaagaaacaa tntacgaaaa agctttgggg 480
 taacagatgt tgagcctaca ttaaaaacta tttattttta aggtttccta tgtntaagac 540
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<210> 8022

<211> 528

<212> DNA

<213> Homo sapiens

<400> 8022

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 aatgtcttac attgcaacca gttctcacat ttagatgtat gggtgaaaag tttcacaaaa 120
 cagtatttgc ctttactaca tgatgcattc tggcctactt tattctgctc cattgctgtg 180
 taatgctggt gaccacttgc taattgattt cccattttac taaatgggct gggacccacg 240
 gtctgaaaac cctgccttag gctgcaagca tttctngat ctctgcgagc tactccatat 300
 aggtaaacac acgcgaggta aactaggaaa cagcttctgc tttgcagat tanaagtga 360
 gttgacatca cgccaagtac gaaaaggcta aacagntgac aaaatttcca cttgagcaac 420
 cctggggagc gcaaacntga ggaatcnggg cangntgac ttgaagaaag cactgcngat 480
 cacgcacttt aaggcaacct ttaactgnac aatgcaaata acctaacn 528

<210> 8023

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8023

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ttatgggata cagcctagca gtttgcctc acttggcaga gtaggtaacc ctggctctca 120
 cactgagccc ccaagagtcc ttttggtttt actggtgtca gggattacag tcagcaaacc 180
 ccactcattt acagggtcag gtgtacaggg ctgagctgga gggttagggt cagggcccct 240
 caggaaactc tggctctggca cagcagcagc agggatgcca ctctcccttt gtggaatcct 300
 tcttaataca agagtgagaa gcagaagagc aaaccacaaa ggaattccag ctcagacccc 360
 aaagtacctg ggagagctgc aaacagccat ggagataaga gaggcgggga gggaacacag 420
 tgactgagtc tgagagacag caaagcacct ntccagcgaa agccactccg agatgcagcc 480
 taacttccta atttgcata gcaaggatga agcaggcnca ncatggaaag aacacctggg 540
 ggtgtaactg gttaccacag cttaccaca nttccccana aacggagg 588

<210> 8024

<211> 583

<212> DNA

<213> Homo sapiens

<400> 8024

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 ttggccaaga gtcaaaaaaa tgcatttaaa ctttggaaacg tgcccacata agacaggagg 120
 ctgatcccaa cagtagttgg ggcagatacc cacaaccaa agggctggga aagtcaggaa 180
 gagctgaaag gattcttcag tcagtttatg aactcgggtc agtgagacct ctagactgac 240
 acgtacaaca gagatgcagt ttcgtctaac tggcacctgt cccttcatt acttgctggg 300
 cctgcttctg tcccatgcag cactgtgcga ccgactggaa taacttttcg atttctgggg 360
 cacagtgtac aaattcatgg ttccagaact taaacgctgg gtttttaac agctcaatga 420
 aggtaataag aagaccccaa ggatgtggcc tatttacaat caaccgctc caagagaact 480
 cttggtgac tgntcttggg tggcttcctg attggccttg caaaaaggta cagcatgggtg 540
 caactgaata ntgagtgtgg ctatttgggt accggaactt gat 583

<210> 8025

<211> 508

<212> DNA

<213> Homo sapiens

<400> 8025

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caatggaaaa attttttagt aaaactggaa aaggctctat aaaatgtcct gactccagca   60
gtcttgaggc agcacacaat ggcatcagtg tctaggtggc aggcaactcg ggctgacagc  120
ttccttctat ggctctatga ccaagcaacc cagcccgagg cagctccac cagtgaggcc  180
ctgatattgc agggctaagc acctaggatc caattctagt acatgccacc tcatgctagg  240
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gcctaggctg gagtttcgca tgaagtcccc gattccccctc caggttcatg cggcctgacc  360
tactgcctt gaatctgacc tgctcattcc tacctnaggg cttggatttc cttttctctc  420
tgctgggtc cccttcgccg gatgttcacg nggctctntc cttctanttg tttaggcccc  480
aanttcacat gcccttnngt ttcanaaa                               508

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<210> 8026

<211> 596

<212> DNA

<213> Homo sapiens

<400> 8026

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gttaatagtg atggggtttc accatggtgc ccaggctggt tttgaattcc tgggctgagg   60
agatccacct gccttggcct cccaaagtgc tgggattaca ggtatgagct accaagccca  120
gcctgcttga catttatact atggaacact ccaacaagta aaatttaaag ccagctctca  180
tgacaacaaa gactctaccc tcagcgccaa catttctcac tacttacgca tttcattttg  240
gttaagtatg atgtgcctgc ctctaacct ctaaggcaag aacaataaaa catatacaag  300
ggacagccag cctcaaaaag gtgacttgtc tcccacaagc caggttctct gcatggaaac  360
tgaagggtgt cttatcttcc gattgtggag tttattacat tttggtatca caaaggaacc  420
aactatccag aataacaaca caagatgttt taccttatat atcttagaaa ttttaaaagc  480
atganctgtg cgcctccgga tgacatctgg atcantcgtg ggaaggaaat ggattgtana  540

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ataagggttt ggcanttga aagggttaa aaaccangac cccttgntt aaangg 596

<210> 8027

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8027

gcttaggcta aaaaagttaa taaaagctt caccttgatt ccattatgac ttcttattat 60
tcagtttccc gcctgtacct actcattatg aactacagta ctggtgtcac ttatacgtta 120
tcatatttct tcatatcttt gcagcactgc agatgacaat ctacaaagaa caagttacac 180
agcaaaatat cagtcataa aatgaagtcc ttccttattt aggttagctc agtgattaag 240
gatcttcttc catatcatct ggattaggag ccataatgaa gtgccttggg tatacaaggt 300
tatgtgtgta tgcattgtatt tcccagcgag catcatcact ttcatgtgta atgtaacgtt 360
ctccaatgcg agtttcaa tctctaaggt caagccaagt ctgatagtcc tgtagccagg 420
gatgactaag agatttgtca acactgtaac gttttctcat cttcacttga agcagattgg 480
ttatcagaac aattgcttca ccagaaattc tctccatgga tttgggggga cataaagcng 540
cattttggat tnggcantta nacttnatcc cattaaaagg naagggncc 589

<210> 8028

<211> 570

<212> DNA

<213> Homo sapiens

<400> 8028

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ctgggggaag ccaactgaga ccccgaggc ccagcaggag tccatctgag gtacagaacc 120
tgtgcttctg ccatgttcct ggggcagggg cattccattt cccctgatg ctttctcttc 180
ctgaagagaa gtccaacaga ctgccagccc aggtctgaaa tgcagggtgg gactcctgaa 240

cacagtcggg gggatggggc agaggcaaac agccctcctg tttcacctgc agacagggtg 300
 ggccanagtg ctatggagca gactgggttg tggaagcctc gtgtgctgag gaatcagtcc 360
 ctgcacacag gagcctgtgc gggggccagc acgcatcgca gcctgcagta caagcctgtg 420
 cttttccatg ccttccggtg ccaacacccc gcacgggtgcc acaccaactg ttccaactaa 480
 catgctcaag tggcacaagg cacaagcann aaacgttntt ccaacccaac ctgggcanaa 540
 aaaaggcnag cccangngaa ccaaagtcct 570

<210> 8029

<211> 531

<212> DNA

<213> Homo sapiens

<400> 8029

catgagaatt attacttata ttttacattt nggnctaata ttttttctg acaggtatca 60
 atgaaagcag aagaaaatcc actccaatac ttagttttca agacacgac ctaaataattt 120
 aaacccttg tagctggcct ataatatata tatattanat gttatataca gtanacttac 180
 caagtcaata gtttaagcaa tcaagccact tcactgttca gtttctttac atcatgaaan 240
 gaatactngg tattaacctc tcaaatttca agaaaatgta gaataactac agatgtatat 300
 aattagcatt taactgtcca caaatacttt aggaaatcct atcatagggt ttcctctata 360
 taaaactggg aaaaaaccan gaattaagtc cttttggnga atatacaagg cantgtttag 420
 ttcatgtggc ctggaaaata tatattagan ggtatatccc ggnngacttn ccaggtcaat 480
 ggttnaggca atcaagcccc ttcactgntc aggttcttta cntcttgaaa a 531

<210> 8030

<211> 465

<212> DNA

<213> Homo sapiens

<400> 8030

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ctcctgcctt cgggctcacc tgagcggggg cgcagctgag gccactgtgg gaaacacaac 120
ccccactccc agganaggcc tcacatgctg ccttcgggtct cgccagcctt ctaacngggg 180
gcctgggccc cccttttaggg tgagtntgca caccctgtgt cagggtctcc ggccggaagc 240
ggaaccatan gcatgctgcg gccccagatg agcgcggagg gcaagcaggt gccggggcan 300
cgcacacccc acagccaagc ggtccctgcc cagcctttgt aaacagaccc tnacagggtcc 360
ctcctggggc tcagtcacat ccctgagaaa cactggcggn tctgccccga naggncagg 420
ngtgtncacc gaacctggct gaaccagntg cccttncctt ttgca 465

<210> 8031

<211> 575

<212> DNA

<213> Homo sapiens

<400> 8031

aggagatatt taacctttta ttgnccttta gagcacatct caatttggac taaccatatt 60
tcaaagtctc aacagctaca tatgggtagt ggctactgca ctggacatcg aagttctaga 120
actctctctt acaaatgaac actatcactg tcgttgaaaa ctttcttgag atagtttatt 180
ttatacaaac aaactgtatt tcttattatt cctgaaatat ctcattttgg catcctgcca 240
tttcattgta gtgcctatca tttttccatt gatactgata aagttgccta agacacaact 300
tcctacatag aggaaataag aggaacaaac cccttttgga cagaatctat taaaactcat 360
tccactatcc ctatgtacat aaataacatt gcctctgctg agtggaattt gcattcgtta 420
cttcaaaatt cagactcacc tacctttcca agtttagacag ttggggaaag aacttcctaa 480
atcttaaggg tgaaggcaga nggctnacc cacttcagat caggcaaggg gaataggaaa 540
gnaaagtgcn agataganct ggnggcctnt tgggg 575

<210> 8032

<211> 566

<212> DNA

<213> Homo sapiens

<400> 8032

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agcatgcaac taaatgtatg tttttattat gaaatgtaat atgccaagat tatgtaaaag 60
atacagttct aatttccaca aagttcacca gtaatgggtc tcccagcttg ccagtttagga 120
agtgcctcgg gggagccacg tggccaccac ccaccccagc acactcagca gcatcgcatg 180
tacacatggc ctgagtgagg gacaatgagg gtaattcttt ggtagtgacc ctcaagacat 240
ctctctctgt gcacttgtgt tcccctgagc tcagagaaga cctaactcca tgatttgatg 300
tgcattgatga gactcaaaca agggctttgt atagattttt taaaagggt gggttggggg 360
ggagcggaaa aaacctataa atatgcctat attcaaacat taactgnntt acttaatatc 420
aaatcacttc agtacaaatg tcanaagaga agtattatct gcattctaatt aacctaaaga 480
cacagngaca cgggatatac tatacttcca gaaaaatccc antatctacc ttcaaaggng 540
actnnnaana aagaccaagg gatttt 566

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<210> 8033

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8033

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acatggataa gtgtattata aatttcagtg aaataaagca tctgcagtgt acagtttaca 60
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acatcggctc atttctggaa aactcgtatc tgcagggaga ctgtagctgt atttgaccag 180
ggagggtagg cccgacacag atgctagtga atgttcttat ttgcattaat gagtaagaca 240
aaacccaaac gacaaagcag tcagtgtgat ctggtttgtc agtgacttct ctgctgaact 300
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ggcttcaaca cttttaagtc taatctgcat tattaacacc ttctccatca gtctgagtta 420
aaggccagct ctgggtttgt agcacttgct gccgtctgca gcgtcaatgc atcaccngga 480
gcccacttca agctttcacc ttggcanggc tgacaggaac acccggcgtg ggacncctaa 540

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acnggagacg cttctgggga ccgtccagct tggt

574

<210> 8034

<211> 538

<212> DNA

<213> Homo sapiens

<400> 8034

ggaacattag ccatgattat tttaatatc tcacagcttt gcaattttga gaataatacta 60
gcattatata agaaggaaga ggagaaggag gaataagagg gaaaggagga gaaagagaag 120
ttggtaaaca gaggcctagt taagaattcc ttgccctagt ggtgaacaag gactaaacac 180
agacaatggg tgaaacacag acgctaattc acataacaga gagtaggcaa ccttaagaat 240
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gaatgcaagt gtttggcttt gtaatacaac ttttagtat ccagaagata accagtgtc 420
taccaataaa gatcttttga tcaaagggtt ttacttctgc cagtcttact cttttttca 480
ggtttttata ctttcttaaa ccacncctnc cttatgnnaa atttaagaan taatgnnc 538

<210> 8035

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8035

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aactcgacac ttttctagca ttcttgaact aattcacaaa tgcaagaaaa taaaagaaaa 120
atgagggaaa tgatgaatgt aggtagtctg gtgttaaaaa ctaatgcagg aatgatgcgc 180
attgtcacag aaagaagagg ggaaattccc catcctgttt tgcgtgctat gagggtcatt 240
tttaaaattt ttattataaa cactattaaa ttcagaccgc ttttttggtt tttttttct 300

ttatctgaat atacaagaac attcattatc aaatgttcat catcaatact acaaagaacg 360
 agacacaagt cgcaagaaac aatggaaaat gttaataaag ctgaaagaat ccgttgagta 420
 tttttttggt tcttttaaag gtttttttta aatttgagtt ctgnaagtgc atctttttgg 480
 natcgaagca ggttttctgg ggcagaaaaa ccaagagcnn ggaaagagag agcccagagag 540
 gaaagatgtg tganaaaggc canccnccaa ttaagga 577

<210> 8036

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8036

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 caacctccgc gtcccggggt cagccattc tctgcctca gcctcccaag tagctgggac 120
 tacagacgcc gccaccacgc ccagctaatt ttttgtatit ttagtanaga cgggggtttca 180
 ccatgttagc caggatgata tcgatctccc gacctcgnga ttgcccacc tcggcctccc 240
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 ggtccagctt ggctantatn tatcagtaag gnattccnga agggcttgga gtcaacttgg 540
 ctgggtatgc cttaa 555

<210> 8037

<211> 567

<212> DNA

<213> Homo sapiens

<400> 8037

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ctcaatcttt gttccactgg agaaaactta attagtgggtg aaagagaccg ttttctttca 180
ccgatggacg tgcgtaaaga tggctttata tgctcagtat gcaaatcaca ggtgtccaaa 240
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ctttcgggtg tttgggaatt cgagaggtaa gattcttccc ttttcttgga aagagatttc 360
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ctgtccctc ccacaacatc ttctagaaga gtgccaccat gcataggact atttggttc 480
agnttaaaaa tggcccctga ctactggact nttaaaactta natgaccact tntttccgga 540
aaagtttngg naatatgccc aaatctt 567

<210> 8038

<211> 581

<212> DNA

<213> Homo sapiens

<400> 8038

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cagtaaatca gggcctgcat tcgaaactac aggttatttc aggctcctta cttgtaagta 180
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aattccaact gcaatattag acttagaggc caataccaaa tatgagagat atgcagcttt 360
gaaaagagat gaaaactcca gattctaccc agtaccatct ttaaggcgaa catgccagat 420
aatgagtttt ccttggcttt ggtttttctt cttaaagaat ccatgttaac cactagagaa 480
cagctntttt cttccccagt cccacagatt taaataaact gnttaaaactt ttggaaaaac 540
ccgaantatt tgagcctaan aaggaaatgn ggaatgnenc a 581

<210> 8039

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8039

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tatcataaat aaatgattat ttctttctca gaaagctgat tttttagtg tagtattttac  180
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aaacaaagct atttgttaaa atagacttat ttttgctcca actaagtaaa catgtaaaat  420
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caatatctag cactgnaccc aaagcttaca gacnactgca atggcnctgn gcctanttca  540
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<210> 8040

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8040

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tcaggcagtg ttctctgtca gaggctcgga gaaggttctc ttgcttcttg tagctttgtg  180
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tgaaatacag acttcactcg ttcctttgct tcaatgcgca atcttctccc atgaacaatg  300
aatggctctt tggtaaattc atcaaaaacta tactgccact cacacgtgag ttgtccaaat  360
gttccctttg ttacaaacaa tacaccacgt ctggttatca ttagcatatc tgtcttattg  420

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atcatgacat gggtaaaata tttgnatttt gcaaattcttc cattttccat gacctgnaac 480
atttganttn caagcccatn ccttaacctg taccggctga tactccatct tcantgaaga 540
anc 543

<210> 8041

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8041

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gatcatatat gaattttttc taaatgttca agctaattgc tticattagt catcctgaac 180
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aatataagga taaaacatac ggtttcagac tgtacacttt gctgctacaa actacatctt 420
gatgggatta agaggctaca ttgattcttg ggttttattgc accaccatcc ctctctgacc 480
taccatggc tgcattctgaa acangaaac tnccagaaga aatgaaaaca gngggnccta 540
aagcacttnt tccaacagcc attcttacat gggt 574

<210> 8042

<211> 576

<212> DNA

<213> Homo sapiens

<400> 8042

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catgtcggca catatatata gctcttcctc tcctttcctg ggagcaaacc cttagcgttt 180
 cttccacgta aactttctgc gggctccctc ttggcctggc ttcttcggtt ccctcacacg 240
 tggatcagta gtaagtagtc cagcttgtct catccactcg acctcgtcct cggtgacaaa 300
 gctgcacaag gcttttgcca ttgccagtcg tattgctcca gcctgcgctg acctcccgcc 360
 ccctgagact gtgcagggtca cgtcgtgctt tcccagccgg tcaacaaagt ggaaagggaa 420
 catcagctgg tctctgncct gtggtgatcg ggaagtaaag ctggnaatca ttaaataaat 480
 agtatgactg gttgncagta tngaagaaaa tagtgaaatg gaccgggcat ttttttccca 540
 ctggaatggt cttggcnttg gaaaaanctg gtcang 576

<210> 8043

<211> 569

<212> DNA

<213> Homo sapiens

<400> 8043

aaactgatga actttattgg agttaaact ataacaaagt tcctcctaaa acactttgca 60
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 ttttcaaaag cagaaactca cattcataaa actttataca tcatttgaac taaaatacat 180
 ttatactact aaaatcaaac atgcatcacc ttcaaacatt cttatatcat gatttttata 240
 tattacatta tttaacacca ttccatca ctacatggat tttatcatac actggcacca 300
 ttctccttgg atttttgatc ttgtcttca ttctttacat tacccttctt gagaacagtg 360
 tggatttcat ccattaccgt agataagttt ctgattgtct tattcatttg gttttcaa 420
 tgtaaactca tgttttctga aatctttaag ttttcttigna actgactaag ggccttttta 480
 acttctctga gttccccaga agagcntttg ttggaaatct ccaatttaat atggnttttc 540
 atcttcatcc ggtttttctt ctaagaacc 569

<210> 8044

<211> 565

<212> DNA

<213> Homo sapiens

<400> 8044

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gcgtgtatgc actgtaaaga ctcttttatt gagcctactt caggtactgg tatgaaaaac 60
aaagggtgta aaaagccagt gttcattgat gttatccaaa tgatcaaaat aatgtatgca 120
ggaaaagcat atgaattagt cctgtactga gaatcatata tttcaaaaaa attaagatta 180
gtaacctaat ttttagtgac aatagattca tgtactatgc aatagaacca attgaatgac 240
actggtggta gtcttactcc tacaagaaca tactcaaagg caaatgcctt atatccacag 300
attcaaattg aaatttctta tatttgaatt ttctcttctc caaatgcttg tatcagtaag 360
tgccagatca aggcaatcct tgtatatatc caaaaactgt atctataatt caatgccatc 420
cttttctcct tcattctcta ccaaattagg gggtagagtc aacttttttt ttttgagaat 480
ggaggcttac tntgtcncca tctggaatca ggggcacaat cttggntact ggantctggac 540
ttccaggcca agcattttta gcttg 565
```

<210> 8045

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8045

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ggatttgaat tatctgactt tatttagcat gcaatgcaat ttattctggc aataaattaa 60
tatgtgcagt tataaaaagt gttgggtact ttttccaaga aaaatgtttc tgaatgtgca 120
cactagaata tatgcagaat cctttaaaca gtcgacttca tattttaaac ttgtaagtgt 180
ggtaacatca agtttttgaa gaatggactt tttctgtaat tcatgattta gtttgagttt 240
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gacagctgag aaaggcaatc acctgatcga gtctcctaata tgtagagctg aagaatccaa 360
tgcccttgcc aaagattacg aagctaaaga gacatagcct ggattacaag tcagttttta 420
taggtgctcc aggaatgtct tgagctaaat aaggcacacg tatcacacag aacttttagtc 480
gtatcttcaa aagtccagtt tactctgntt tctctttta ttttaagcat gaaggcttgc 540
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ctgttacaca gcttgaaccc catgggggta acan

574

<210> 8046

<211> 578

<212> DNA

<213> Homo sapiens

<400> 8046

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cagtccaaca cactttattc atttttaact tttttcttaa ttttcaataa tcaagtattc   60
aagatgctgt aaaccaagat tagtacatcg acaacagatt tcattaaaca cacggaaatt  120
atacatcttt taaattacct taaaaagtct ccaaataaat atcattttta aaatcacaaa  180
atcaaacttc tttatgcaac agtgcaaaac ctttcatcac aaacatacct ctacacaaaa  240
cacacacaca cacacacaaa cacacactcc actaagaacc taatgccagt ttagttgaca  300
cagtattaca tttccttaaa caaaagagtc agagcctgac ctgcctgttt caggattcta  360
aattaacatt tggggtttgg ggtagaggta tgtattttta gaaaaatgcc cactatttgg  420
tactactctt accaattatc aattaccaat tggccaataa tcggnactag tcttaccaat  480
gattcttatt tttcattcta gaatncaaac tttaaacctc ttttggtcan ccctttgggt  540
taaaggggnc ctggaattac nttangttca anaatatt                               578

```

<210> 8047

<211> 558

<212> DNA

<213> Homo sapiens

<400> 8047

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cagtacaatt cattttatta ttttagtgca aaaaaacatt tccagattta tttccaattt   60
cagtttcaaa acaaactgac ctgaaatttt tagtatttac tatctgtgac aatgaccaat  120
aaaatgtgta agaataataa aaataaattc attcattggt ggtagtactc caaattcaat  180
gcataanaac cttttctatc taaagcattt tcctaaaact gcaaactaaa aatctgatat  240

```

ttaaaacatt tatgtggtaa aataatctca ttigattatg gatatacataa atagaatata 300
 aaagatatta cattttcttca aataccattt gtttcaactgt gttcaatttt gagtttcccta 360
 acatccattc tacaggtcaa tcaaaataca aaggcgtgca aatgaaacaa gctattgaaa 420
 tgaaataaaa ttcangaata aaagttagaa ttaacttatg angnaacttt tatgtaagcc 480
 aacatcccag tgtaagaaat gcctctnttt acaaaaagca ttaagaagcn canttttcta 540
 naactattat ttcatggg 558

<210> 8048

<211> 598

<212> DNA

<213> Homo sapiens

<400> 8048

aaacactgga agcaaatgat tatcaaaatg agactgcaac ttaaggcatt ttaaaagaaa 60
 aaataattag gtgccatata gcattttatt tcaaaagtat attttgtccc acttttctca 120
 ctagcaagag taaaacacaa accttttttc ataaatatga ctacagtaat cataacacaa 180
 aaaagggttg ataggcattg cttagatatt taaaacaagg gtaatacttt ccactcacc 240
 taaaagaaaa aacctttttg attaccagtt tataaacatc ggatttgcta tgttaaaaag 300
 tccagcagaa ttttaattca gcaacactgg agaatgaata tatatatata ggcatacatg 360
 tgtatgtata tattcatttt atatatagtc aatgtattta ttaggcattc cccacaaaa 420
 gtaatttata ttttaattgcc atttttaata aacacttatg ttcacagatc atccatctgg 480
 cntatatgaa antaggcaat atcaaatgtc ctggtatggg ctccgcttct tcggaancat 540
 ccctggaagt tccagacttc ctatggggcc tgaaaanttc ttggcanggt nataaatc 598

<210> 8049

<211> 604

<212> DNA

<213> Homo sapiens

<400> 8049

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agaaaaaaca agatttgtat tttatttcct tgtaaaaatc tttacacatg cagacaaacc 60
agtgttaaga aagtattcac catcatttaa acaaataacc acttaaataag aacagtgtct 120
gcaattttat ctgtataaaa ataagataca tttttacaga attcacgctc cagttcttat 180
agcaataaac aatacacaac tataataaag tacaattgaa cctgaccatg gtttttaatt 240
agatactgct agggcatttt aatgtgcaaa aaaattaaca tagttctttt caaaagaaac 300
tgtctcagt gttctagaga cctagagggt ttcaagaaat caaatcctaa tcagtttgcg 360
tttaatgttt ttgattgagt ccatacatca cactgtagat aggcaaaacc aagaactgat 420
gcaggctcaa aggaagagaa agtcagcgcc tgtgcctgcc atggtcctga gcgactgncc 480
catggtgctt gcttttatng ggacctcttc aaaggaccga agaacggttc acgccctggt 540
ccctatgatg gcccctttta tgcctggggg ttcttgntg natctgagtn gatcccanan 600
ttgg 604

```

<210> 8050

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8050

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ctttcccaac caggttgtcc tggctcgaga actggcaacc tccagagaat atgcgagtga 60
gtatgggctg caggagctg tgcgtccggg agcaggggcaa gcggctccgt gcagggcggc 120
tggggtggca gggccggtgt ttctgtgctg atttcagggt acaggacact gttggcttta 180
gagaccacca ggctgtttgt tacaatgttt gaaagacttt aatttgtacc agttaccttt 240
gtgagtcatg tctttagtgt tttttgttgt ttctgatagt aactcacttc tctctcacct 300
gaagttaaaa ttctggagaa gcgacatata ataaaagaga acaaggtccc ctatgtaacc 360
agagagcggg atgtcatgtc gcgcctggat cacccttctt ttgttaagct ttacttcaca 420
tttcaggacg acgagaagct gtgtatcctt tgcgtggttg gtgcccgtg aagccacacc 480
agtcaccctt tttacttgga atcagaccct gtgngttcca caagcagccc cgttccttgc 540
cantggggnc ccttaggccg ttacantnag g 571

```


<210> 8051

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8051

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aatgaagaaa cttgttttaa attgtaaagg aaaaaatggg aatgggacgg caaaatctta   60
gcagcaaagt ggtaaaca attgaaaata ttaatgcaca aacattaaaa tattaagca  120
tatatgttgc atataaaata cagtacagaa ccaggagttg cactatactg attagtgtt  180
aacagaagaa atgattaaat ttgttcctcc cagaagtata tacacagttc atttccacag  240
cattttccta tatagccagc aagtattttt cttcagttat tcacaccttg atcaaacctg  300
aattataaac ttagcactta caaatatgaa aattcattca caaggaaaaa cagtatttcc  360
atttcaccaa taaaaatttt gaaagttaac agtctattct aggaaaccaa gtttagctga  420
aaacttcang gatgaagatc atctgttgta gcagcattca aatatataaa cnggtaaaaa  480
taagacttaa aactggtggc tacagggtca tggtttngga ttaattcatc cattgatatt  540
agtccaaact tgaataccct tttntttata acan                                574
```

<210> 8052

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8052

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cgtttatgcc aacaacttta ttgagcacca attagggcaa gggactacca ccttcacagt   60
tctcttgggc ttattaacgt cgtggcccac tcattttatt cacaatgag gaaaccgagg  120
accctgctgg gagagtttgg ggcccaacca gggctccac tgagtctggg gcaccctcag  180
ctcctgcacc acaaagcttc ggttgacttg tttcaatgta aagaacgtta cttaaacagg  240
tctgagtgtc aggcaaactc acaagaccta gctcaaagtt tgagcacatt ggtatgaaaa  300
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aaagaaaaaa ggagaatcag caccttgtga tatttaagca ggggcatttg gcattagcca 360
 accaagccca gaaagtcggc aaaattctta gcctgaggca tccccagaac acctgagact 420
 agctcctgca gctgagggtt aaactcgtgc acctgcactt gcaccacatc ctgtctgact 480
 cttgctgaca gcccgtctct gggttgngaa ncttctggca agggttgggg ggacttcaga 540
 acagaccagc cnggatccca ggnkanaagg g 571

<210> 8053

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8053

gagacggagt cctgctttgt caccagggt ggagtgaat ggtgcagtct caactcactg 60
 cagcctccac ctcccagggt caagctattc tcctgcctca gcctcccaag tagctgggac 120
 tacaggcaca cgccaccacg cctggctact ttttgtatct ttagtagaga cggggtttca 180
 ccatgttggc caggctggtc tcaaacttct gacctcagg gatccacctg ccttggcctc 240
 ccaatgtgct gggattacag gcgtgagcca ccacacccgg ttgaatcttt caagaggcag 300
 gttaacaatc acatttttaa aagggaaccg aaaggaaaac tgaaagacct aagtcaaaca 360
 agccctgata ctgtccattg gaacccgagc gggacacagc acgagggaaa tgcagaaaga 420
 gtaccgatga gtgtgcacac tggagaatcc tttctcttca atccactgng caagtaagta 480
 tacttgata aatatnenta gacctgcaa antnaatatc ctgnaaatan acatagc 537

<210> 8054

<211> 573

<212> DNA

<213> Homo sapiens

<400> 8054

catgtcatca tgaatttatt ttcaggcaat atgataatct attaacactc agcatactct 60

gaacttacag aataagtacc acgccatact tcctcattaa tgactatcat ttacatgag 120
 cttcttccac aatcacaatg agagaacaga ttgctacatg ttgctggta aatgcattca 180
 gtaaggcact caaatcctag acacgaacta accacagaac gctcttcctt gctttaataa 240
 attgaaacat gatctcattt ccttcatttt caatactttt tatagaaaga cacgcttgtc 300
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 aggaaatgat ttcacattga cggtttttta ggtagggata agcgaaagca ctgcagcagt 420
 ttctgaggga atgtcttctc tnggttccc catacttagt acaatgcctg gaatgtanca 480
 gggactaaat tcngtggaca aatgggcaaa cctttaattc cagggatctg gtcaaattgg 540
 cttgactggg anaacatttn tcaagaaaaa agn 573

<210> 8055

<211> 567

<212> DNA

<213> Homo sapiens

<400> 8055

aaacaaatgg agaaaagaca gaccagccag gatgacttcc cacagggaag ggatttaagg 60
 gctgccccca tgaatttctt caggccacga cagctacttc ctcctcttgt atctggattt 120
 agatttaaag tttctctctc gtctctgggtg gggcaagccc aactgtttcc tttcttcaaa 180
 ggaagggccca gctcgatact gtttcagggc cttcttgctt gtgttggtga gttcttcac 240
 aaatacagat ttcttcccct gcttttgctt ctgggcagga cctctcactg gctcctctc 300
 gggcattgct cgggcccgtt tggctctgct attcctcttc gctagccgtt cagcaaacat 360
 ctgcgccttg aggatttcaa actgagacct ttctctgct gtcactctcc cctttttttt 420
 ggcatccttc ataaacttct tccttttctt ctttctctt aaggccaaag tcaaattcct 480
 gcaaancctt ggcaaatttc tcctctctcc tctctctttt ggncctggaac cagttctttt 540
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<210> 8056

<211> 557

<212> DNA

<213> Homo sapiens

<400> 8056

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gagtcagggt cttgctttgc tgcccatgct gaagtgcagt ggcgtgatca cagctcactg   60
cagcctcgaa ctctaggct caagcaatcc tcctgcttca gtctcccaag tagctgggac  120
tacaggcatg agccaccacc atgcctggcc cctaatttca gtattgctgt gtctcaagga  180
tagggaggtc tgagcagaag gagagagata gggaggcagc tggtcagtgc agtggtcaga  240
acacataaaa catttatcga ctgagtttgc tgtcttatat aggggtggtt catggtgccc  300
ccaagcaat tatgacagta atatcaaaga tcaactaatca cagatcacta taactgattt  360
aataacggaa acattccaag aattacaaa atgtgagaga gacatgaagt gagcacatac  420
tgtagaaag atggctgctga cagacttgct ccatgcaggg ctgcacaaac ctgactttgt  480
aagaaacata tgatacctgn gaagtgccat aagggatccc ctgaaaacag tgggcctgtc  540
atgactattn cncctn                                     557

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<210> 8057

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8057

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acttagtatt agcatttggt gaaaaataa atggccaaag ngctttaatt ttcatttaga   60
atgaaataat ctggcttacc ttgactaat taaagaaaat atagggtaat acaattgttc  120
aaaatctaac acaaatagga gcgtttacta tttttgtctg cttaagatt ttaacttgat  180
cgaaaatacc aacatcccca acaaaaattt actgacctga catcagctta ctatagactg  240
aatacacttt caacatcagt ccttagctac ctcaaataat gacncaaagt cttagtttct  300
tttgcataag gatcaagatc aagctatfff taaaacaatt taaatggtct caaaacattc  360
tccaacttaa gtgcaaattt gagtcacata atatttccaa agagtagaac tgnntttaga  420
ttatctttgg attctaataa ccattttgnc cattttttaa taaattacca aaaataccag  480

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tcagggtttt tttcttcaaa tttntctaagg ccttggtatg gcaccccatn tntcntnaca 540
gggcagcttg naacn 555

<210> 8058

<211> 575

<212> DNA

<213> Homo sapiens

<400> 8058

caaagcttaa attttatttc aaaatggcat attttgggtc aaagtatgaa aaaacaaggg 60
catagttatg tttttgttaa agtgaaaaaa attaggtaaa gtttatgtaa gtagactgat 120
gacttttgaa aatatatcat taagcatgta cttaagtgtc aaaaacctca agtcaaactct 180
tacaatgtat ttcaaaagca aagctaaaat tcattcactg nggttaaact gcatttcata 240
aaatatctgt tgaaataaac ctcatataaa cataattata cagatatattt aattgtatat 300
atatcaggta cacggaataa aagtcctact ctctagaaca tgagaagtca ataaatagaa 360
aagatataca aagtggaaatg aacatagaaa tgactaagca tgtgatcttc acattcatac 420
agtttttcaa ctaatctttt acaattaaaa aggtcattta tttgaaactg tanangttga 480
tatatgccat attagtttgg aaccttccaa acaacttttag tgggggtaat tatgtgtgga 540
gaagaaaact gggtatgnaa ctatcatggt tcaag 575

<210> 8059

<211> 550

<212> DNA

<213> Homo sapiens

<400> 8059

cctgggtact gggttgctca gcactggcct ctcaagttgc taactttttg aaatcctgag 60
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cctggccctt cagtcttttc atgctccata actttcacia gatgctgtac acctgctaca 180

gacattggtc tctaaggagt tattctctag tgaatctctt tctcccactc aactccatgt 240
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 tcagctcact gcaagctccg ccttccaggt tcatgccatt ctctgcctc agcctccgag 420
 tagctgggac tacaggcgct cgcacacgcc cagctaattt ttggattttt agnggaaatg 480
 ggggttcacc gggtagccnn gatggncctg atctctgact cgganccgcc gctgggctcc 540
 aaaggctggn 550

<210> 8060

<211> 559

<212> DNA

<213> Homo sapiens

<400> 8060

aaagttataa aaatatitita tttaaagat acagaaaaaa atgtatactt aaaagngatt 60
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 tgatgagaaa acataaaata ttttcatttg gtcctgtcac ctaacagaac taccataaat 180
 atgagattat agtaattact aaagctgggt aaaggcacat gacaacataa ttcctttata 240
 ctcatccagt ctttttatac aaggaactgc tatcccttaa atggaagagt gaactacttg 300
 tttaaaatat taacagtgca ctatgtacct acaatgaaac cactttctcc aaagactcaa 360
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 atgcatatgc aagtgaata taatttattc tgggttcaac aacaggtata caaaggcaca 480
 atttttcccc aggaaccnt cactttataa gtgcaaaaaca ccctgnagct tttctggtan 540
 ggcttgctg cttttanctn 559

<210> 8061

<211> 559

<212> DNA

<213> Homo sapiens

<400> 8061

cattaaaaaa	tttattttca	tataaaagt	ccaaaat	caccaat	ataatct	60
tcaataacca	gtttacacta	gtaatcaaaa	cacaagcctc	tttattcaca	ttgttttaaaa	120
atccaattat	tttcacacat	tcccacagta	actcgagtct	ctagacagtg	ggaaatttgc	180
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agttgtgatc	aataaaggct	gctgaacatn	tcgaggacan	ggggaagcnt	tgggcatant	540
caagtttctt	tggnaaaggc					559

<210> 8062

<211> 590

<212> DNA

<213> Homo sapiens

<400> 8062

agttttttac	aattttattc	cgtttcatca	ttctcaaaat	atatccccca	aaagtaatct	60
acaaaagagt	gcaggctgct	ccccttaaag	gaatggacaa	gtaatataca	ctacaaaaca	120
atgtttaaga	tcatgtataa	atgttactct	gaatctcatt	tgttgtcatc	aattttcttta	180
gtatctcagt	gctttgggga	atattcttaa	ccaaaccctt	caagcttctg	gtagaaagta	240
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acagaattgc	cgggattttc	catacttgac	agtagcttag	aactgctgca	ggaaggctcg	360
gtactatatt	cggttgttct	agcaatggac	aacacgccga	gtctttgaaa	ttctgtgttt	420
ttagggctct	caggaaagga	gaaggaaggc	tgccggtgga	ttctgagggt	ttataatcgg	480
taacatgtcg	acatgtgaga	ataggatatct	gcatggtctt	tcttgggcaa	aancccaaaa	540
nentttccag	cnetggtaen	gggngaactt	ttgnacataa	cacctggccc		590

<210> 8063

<211> 520

<212> DNA

<213> Homo sapiens

<400> 8063

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aatacaaaca acttggggaa ggtagataag tgcaatggga gggaggattg aattgaatag   60
taaaacgtaa gcgtatgtga tttcttactt tggaagagag gccctttgtt ataataaaaa  120
aaaaatcgag aaagagaaaa caaataaaaa caacaacaat aaaccaaact cctacttcca  180
atgttctcta gactgttcaa aatgcctttc cctcggtttc catcagtacc tgggagggaa  240
gaatgggcgt tttggtgcaa agaacggagg gcccctagca aaaggtggcc tgggtctctt  300
taaactgtga aatgggtctc tgctgagaaa aggttcctta ggccgaaagt ctggccgggg  360
actccgtaag attataccac tccggctgat ggtgtctctg tgtgaaggga cccaaggggg  420
ggccactgct gctgggtctg cctcccccaa ctntccttc atggggtggg cccaagtgtt  480
ccanaaaatg gganggtang gtgaagctnt tntngtacac                          520

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<210> 8064

<211> 600

<212> DNA

<213> Homo sapiens

<400> 8064

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gaagtaaaca aaatataaaa ctttattggt ttggagtgtg cagtagcagg tgttcctggg   60
agcggccctt acagacttgg ggtgtggctg ggagggcagg tggggctgct cggcagcagt  120
cctgcccctg ccaggagatt ggcatccatc tctgcagtgt gaaggtcggg gcggcgctga  180
gagcacaccc acggggaatg gtgctcagtc tagagaaagg cccagggtct gctgctggcc  240
ctgccacgtc gcttcccttt cccgggcctc agtcccggga acaatgggca cctggactga  300
acaatgggca cccggagctt ctttcaggct tgtcaggata tgtgcaaag cccacagggc  360

```


gggcagctgg gaggccctcc gtgagagccc ttagatgatg ttggctgagg ccaggcgagg 420
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 tcaagaacaa gctggggccaa cacagcgaaa gcctgtcttc tactaaaaat ncaaattaac 540
 tgggcattgg tggcgcacac ctttagtccc aagnaactng ggaagcttaa ggcaggaaaa 600

<210> 8065

<211> 594

<212> DNA

<213> Homo sapiens

<400> 8065

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 caactccaca atcatgtccc ataatgcatt cacaaatcaa atacaaatga ttttaggact 120
 atccatagtg cagcaagcaa gcagggtggca tatcaataag tgatacatat tactgagtcc 180
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 cacttcagga tccattgagg acaaagcatt ctttgatgat cctttgttca catctgtccc 480
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<210> 8066

<211> 602

<212> DNA

<213> Homo sapiens

<400> 8066

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 gtttacaata tgctgtggct gctggcccat gtcactgggc tttcctataa aagctttctt 360
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 gtgtgatggg tctcggaacc acacttcttc ctgctnccct tcaactgaaag ccctggcctc 480
 tcttctgnga caganccttc tnttncgggc atacatttgc tctgacaccg tggaancttc 540
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<210> 8067

<211> 606

<212> DNA

<213> Homo sapiens

<400> 8067

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 aacatacttt tcaatatgat acaaagcatg catctcaaag tcattacttt aaaagagagc 180
 aacacaggta aaattcaatg ataaacttca cttcttggca gtactatagc tggaatgaga 240
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 aacttgcacc ctggcagcac ctgtcaccag actgtcagtg caaaactgaa agaaaaacat 420
 taaaaggaga tcgtgaaatg atacagtgn agcggggcag tttatgctaa aaccaatcac 480
 accagaattc tagatgaaga aggaccatga atangcttng cccaatttcg gtgacacttg 540
 acacagtnaa agatccaaat tttcaagttg gaagggggta nanaaggggg cntcaaggg 600
 gaaaaa 606

<210> 8068

<211> 595

<212> DNA

<213> Homo sapiens

<400> 8068

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gagaaatata aagagcttta aaacacaatt tgccgtttcc tcagtttaaa gtgactttta 120
cctgattgtg atacaacaga aagtacagaa cagtaaactg ctttttaaat actggaattt 180
tatggagaat acattcacat aaagaaagga ggtgaatttt gttttggaac agggttaaga 240
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cagcacgagg taaaccactt agacctcagc acttcagggg tggcccgcta gagaaaagan 480
gcctgaaaag cttcagacaa ttccgtcaag ccaaggtata atgccaaact tgccttntga 540
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<210> 8069

<211> 587

<212> DNA

<213> Homo sapiens

<400> 8069

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caaagtacat attttattta tatagattag tgcaagctga acaagaatat ggtttgtaat 60
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actggccttg gtaaaggaaa tgacacacat tcccccaatt tggaagcaat ctttaattagc 180
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ccttataggc cgagtcgtag gagtagcaag cttctaaatt ttggctgtgc ctctgagctt 300
ttggcctaag tcccaccagc cccgaagttt ccatgacaac aaaacaagga tcaacgtgcc 360
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tctgacactc ccttcagccc caaattgttc tcttactccc attttcttcc tacctcccaa 420
 gtatcactgg gatacaagca gaacagggct ggggtgctga actcacctt ggggaggact 480
 cattatagca tcttgccttt ctccattatc ggncaactgg ctaaggccca attaataaca 540
 gctgnttggc ttcctggaac cgctggccnt ttggacatgg tagcctt 587

<210> 8070

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8070

caaaaacaga ttctaacaag taaaagaaa taattaacaa aagctcatgt gtgccccaaa 60
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 tatcagtcac atatatactg gcacttagtc tggtagatgc aaatttcaag gcaattcctc 180
 tccatctgag aacgaggaat tgtgtcattt taaggccaaa ttgcagtcca attgccacaa 240
 gtgcaaaacc accccacata accacctatt tgtaatcatg gaatgatagc ctcaaccaac 300
 caattgtgcc atacatcatt gttaanactt ctttggctca ttttagtata gatttaaaag 360
 taaaaattgc aaaagatgat aaacatctat tattttgtaa aagttacaag ctcccattcc 420
 aggtgtcagc cctgtagtgg ttctccagcc tagctgccat aagaagcatn accaggacac 480
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 gnt 587

<210> 8071

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8071

ataaagaaaa agaagtttaa tggactcaca gtttcacacg gctagagaga cctcacaatc 60

atggcagaag gtgaaggagg agcaaacaca tgtcttacgt ggtggcgggc aagagagagc 120
 ccgtgcaggg aaactgccct ttataaaacc ataagatctc atgagattta ttcactatca 180
 tgagaacagc atgggaaaat cccaccccca tgattcagtt acctccccc gggccctcc 240
 cacatgtggg gatcatggga gctgcaattc aagatgagat ttggtgggga cacagccaaa 300
 ccatatcatt ttgcccctgg tccctcccaa atctcatgtc ctcacatttc aaaaccaatc 360
 atgcctcccc aacagtcccc caaagtctta tticagcatt aactcaaaag tccacagtcc 420
 aaagtttcat ctgagacaag caagtctctt ctgnttatga gcctgtaaaa taaaaagcag 480
 ttagttattt cctaggtcca tggaggccca gggatttggg naaaaacgcc cgttgcaatg 540
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<210> 8072

<211> 563

<212> DNA

<213> Homo sapiens

<400> 8072

aaaaaaaaatc attttaattt ttgatacata ttaaaacatc ttagtcagtt cctcctgaca 60
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 tacttaaaat ttaataaata gcaaatcaca cacagataca ttttcataa tcattaaact 180
 actaaaacag acagttaaag aataaataaa ccgcaactga cagtaaaaaa aaatatgttg 240
 ggttttgcaa ttcacactac ttaaaaagg gggatgatct gaatgatttc ttaattttct 300
 tttgagagt tagcatgac cccccagga ataaaatata ttgaaaaat cactcttaca 360
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 aataaaaatg tccccgcc ccagccaaa gctatggaaa tatatagttg ctggggtagc 480
 aaataatagt atttaaagng atantgcttg ggccctaagc ttatttgaga acctngatn 540
 aatttagggg caantcctnn ggg 563

<210> 8073

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8073

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agtcagcatg acctctatit tattgattga ttgatggatt gattgagaca gagtttcact 60
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aggttcaagc gattctcttg cctcacactc ccaagcagct gggattacag gtacccgccca 180
ccatgccaaag ctaatttttg tatttttagt agagacgggg tttcaccatg ttggtcaggc 240
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ataggtgtga gccaccacac ccgaccagca tgacctttta acacaattgg acttaagaca 360
aatttagtaa atgcagattt ctggggggga aggggggaat cttcttttaa aatgcccata 420
ttagtgtag gtgaaatata ctgcttataa actattgata ttanccttga anaacctta 480
ttgggtctta nntgaataat taaagcttta aaaaggctta taaaaatgca gganc tantt 540
ggg 543

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<210> 8074

<211> 564

<212> DNA

<213> Homo sapiens

<400> 8074

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gtatatatgc ctttatttga agcaaacctc caggtgtttc ttaatatgac agaatcatga 120
agacttgacg ttaatcagtg ttctctaatt attaaaacaa tgttcaaata attacaaagt 180
tacttcatca aaatacttag aagaatattc tgaggagtgt ttgaaagctc tgtttataaa 240
tagtgattga tacattttat atgtatttgg tgctgaagat aaacactttt tacataaaac 300
attgttttaa tatactgctc tactaatgag gctagttatt agatatactg tattttaaca 360
ctaaagaata aagcttttgc ttctgtattt tcttatttat aggactctta tcaatgaaga 420
actttgtatc caacaataat aaactggcaa attgcaagtt acgttttgta ggagaagcaa 480

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aaaagactgg ctgcgaccaa agaaagaaga aaactgggtt atcatgcttt gnaccaacag 540
gncctntn gn angggccatt aang 564

<210> 8075

<211> 587

<212> DNA

<213> Homo sapiens

<400> 8075

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ctttgtatag aatatacaga cacagcatca caccacaggg cccacgggag ggtcggggag 120
acgacacttt ttccttggga aaggcagctc taatcccagg aatggttctc agcagaggct 180
gggtggccag gagcactgtc ctctagcccc ctaactcagc ctctgcttca gctcgggtcc 240
catttcctgc ctctaccccc caactcctta taaagagccc catgagctaa gactaaggag 300
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aggtggatgg gccgaactcc cagccaaccc tgaaggaagc gctgctttca agggttctta 480
aaaagaagaa aatcttcaac caaaggggaa gggacnagg nnaaggccaa gaattgnccc 540
atttttccca cattggaaca tncncggcta tttnaatggg ctttagg 587

<210> 8076

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8076

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atttggcatt ttaaaattct gaaactctga ataggcactt acatgaagga aaacattacc 180

attcatagat atccacatgt agaacagatg ctccagcaca tggtaggtaca tggacccttt 240
 tgccagtaaa gttggttcct gaccatttta tcaaagtgcc atagtagtaa aacaggttta 300
 aagaaatgta atttgggtta tttagcttac tcataaagta aggttaactg acaagacttg 360
 cactgaagtg cataaaaaat attggtacaa aaaccaatga accataagtg aaagtagttt 420
 ccatacagca ggtttcattt tggttcctac actccacatt tagtgtattt gcgatcagac 480
 cccatgcata tgaatggatg actgcaatct tcttttttag aaacttaaaa ccaatgactt 540
 gnantanggg taaaaaattn gaaacttatg gnagttccat ttnggnta 588

<210> 8077

<211> 538

<212> DNA

<213> Homo sapiens

<400> 8077

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 aatgcagggc atcatatggc aagggggctg aggatgctag ctgaggtctc tcttctctt 180
 cttatgaagc caacagtctc aattccagca taagccatta atccattcac agcaagaccc 240
 catttcta atccattcatga aagcagatcc ctcatgaccc aatcacttct taaaggcccc 300
 acctctcaat actgtcattt tgggaattaa ttttcaacat gagttttgaa ggggacaaat 360
 attcaaacca tcttaacaat actaaatctc ccagcccat aacatgaaat atgtattagt 420
 atattttcat gctgctgata aagacatacc tgagactgga gaagaaaaaa anggttaatt 480
 tggacttaca gntncacatg gctggggang cctcanaatc atggtganaa gccaaang 538

<210> 8078

<211> 576

<212> DNA

<213> Homo sapiens

<400> 8078

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agaatatagc agaaaattcc ttaaggttag gtagtactgt aggtgatata aaaagaaaaa 300
aatctttgac tctggaaaat gttcagagat ccttcagag taacctgtt ttggtgacag 360
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ttaacttttg tcanaagtgc ttatgttttc gagaaaatga ccacatttgg ggcangcctc 480
ttttacctca agtccccact tctggtcctt ccaggaaagg gcaaactgca aaggaggttg 540
aaaataggat ccttgatct ccttttccca aaangg 576

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<210> 8079

<211> 530

<212> DNA

<213> Homo sapiens

<400> 8079

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gcaaacatta catgttctca tttatttgtg ggagctaaaa atcaaaacaa tggagctcat 60
ggagctagag agtagaagga tggttaccag aggccgggaa gggtagtggg gtgggtggg 120
ggagggaacc ggggatgggg atgataaata ggtacaaaaa aatagttaaa tgaatgaata 180
agacctataa tttgatagca caacagggtg actatagcca ataataattt aattgtacat 240
ttttaataaa caaaaagagt gtaactggat tgtttgtaac acaaaggata aatgcttgag 300
gggatggata cgccatcttc catgatgtgg ttattacacg tcatgcctgt atcaaaacat 360
ctcatgtacc acataaatat atacacctac tacaaccac atttttttt taattttatg 420
aaaaagaaat acattatcan gggacnaagt gttattttaa aaaaaaaaag ctgcattcnc 480
aaaaacggtc tttaaatcna aatangnt aaacccttn gagggacttt 530

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<210> 8080

<211> 559

<212> DNA

<213> Homo sapiens

<400> 8080

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aagattgatt tactttttta ttaggagcac ttctcaggtt tttggcattt cacatgtcta 60
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gaacaagtaa aaaagggctg gtgtaggtac caaagccaaa aggggcaa at cttgctcaag 180
tttatccact ctggaaatgg agattattcc ataggcatga agtaaccagt ggctgaagag 240
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ataaatactt ttaa atcgat cagatttccc taaccacat gcaatcttct tnaccagaag 480
aagtccgagc agcatcttaa ttcccagcng aatgcgtaat agattaatcc catgggatat 540
antggggaaa ccgnttctt 559

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<210> 8081

<211> 565

<212> DNA

<213> Homo sapiens

<400> 8081

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cagtttctgc attagcacta gtttcccaa gagtcttctc atgtaaatta cttcctttct 60
caattaaatt ctctgtaga gtttggtcag caatcagttt ttgtttaggt aacacatcat 120
cttttatatg caatggactc ttctgaanag gttttcttc ttccttacgt cgttcctttt 180
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ttaccatttg atctgctgat attactactg ggggtgtatt ctctttggat tccaaattaa 360
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ctgctttaag ctttgnattg gcatgctcca ttggtagatt cagaaaggat gaacctggat 480
 taatctggac cacaattctg ggttggatta aagccaaccn agnggggta attttctta 540
 agactaccaa tngcctttaa canng 565

<210> 8082

<211> 547

<212> DNA

<213> Homo sapiens

<400> 8082

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 aacttctgcc acacgtacta atgattagac tcacggacat gatgaaggta ataagctgta 180
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 tatgtatgga aatggaaaat gtgattttta atgtttataa caccttgaca gaagaagttt 480
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 ggcctaa 547

<210> 8083

<211> 539

<212> DNA

<213> Homo sapiens

<400> 8083

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ttaactatca naactaaaaa tgagaaaatc caaatagttc tatagtanca ataaattatg 180
aacaagtttc cgtcaccaa tatcactctg accaaaaatg actgtctttt gtcataaaaag 240
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caaaatactc attatgccac caggttcaat gtaagtattt tgtatataac aaagtagcag 360
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aaaaaatagc aaagttgggt acaaaattct atttggggag cngggaaaaa acttgncca 480
tggttaattag aatatcaaag cntttcaaaa tcaactgggt ccaaggccat nnttaccba 539

<210> 8084

<211> 556

<212> DNA

<213> Homo sapiens

<400> 8084

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aagcgccacc tcccagggtc acgccattct ctgcctcag cctcccaagt agctgggact 120
acaggcgccc accaccacag cgggctaatt tttgtatac ttagtagaga cagggtttca 180
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taattgctat atttttgntt tgagtattta taactcaatg tagttagtaa tcaaatcat 480
gctaaaatgg tttaatggtt ttagaatggc ctaaaaaggg catttcanga atatcatttt 540
aatccctgaa attttt 556

<210> 8085

<211> 540

<212> DNA

<213> Homo sapiens

<400> 8085

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atacccaa at catttctatt tggctttagg aaaaaaaca gatttccttt tcagcatttg 60
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tcaggtaaca aaagccagtc tgcccagcct tccatcttta cctttggaaa tcgagacctg 180
aatgggtccc attctttttc tgtaatccaa cagaaaatga aaaaaaaca aaaaccacca 240
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ctcagacaac tttagatcct aatgaaatac tagacaagag agaaaatggc atgagtggac 360
agttctccct cgtcacatac tatccctcat ggttgcataa ggctgcctgc tgatgagatt 420
caagccaact taaatgaagg gcttcaccac atgagaacct tcaatagcaa cgtttacatc 480
actggggagt tatgagacct gaganaaggc cagaaagttc cactgagana aagtcctttt 540

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<210> 8086

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8086

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ggtgtctaat acttttactt cccagcagca taataccact ttggtcaggt tgaaccactg 60
cacaattttg cagctctttc agaaaaataa tgaaaacaat tggaaagaca tgatgtacat 120
gcaa atggtg agaaaatgat actattgtcc aatcctttcc cgtaa atgta aaatatecct 180
agttcatctc caaactgtgt atttattata agcccttaca tcagggattt tgtttctttc 240
agtttttgta gcaccaataa gacacagcgg ctaacaagaa ataaatctga aaagtcactg 300
aaatatttat cacatgtcag aaattttctg gtctgtacct ttaaccatgt tcctggcttc 360
acatattctt cttagagta agctataaca taagattgag ttcccacct gtgtttgcta 420
ctgatgtgat ttgtttacca tgaataatac ttggtaata tcttttgat attactttac 480
aatttccaag tattttatgt acagtgactc acttagtgac tcattcattt taatggaatg 540
ggggncccca aaccn 555

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<210> 8087

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8087

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catggtcagc cagtctctag taagtctcta gggacatgac cagaccagaa gcccctgttc   60
tacatgaaga caaacagggtg gccatacttg ggtggaggga taccgctgct attcccagat  120
caagatttgg tggaaggaga ccatgacaga tgacaaacgg aacagtttct caaaaacaga  180
ggtatgaagt aattacacag gaaagaaaac aatttccaaa ggagtggagac aagtcgtgat  240
tcttcattgg tacctgaccc ctatacccaa acagccttga accagccctt ccagagactg  300
cccctagtgg cccactgggc agtgcaggct gtgaagaaga cctgaaggca gatgggggtgg  360
gggtgcttat tttgctacag tggagaaggg gcttgaatgg ggagggcaga cctggctaac  420
atctgccgcc atcccccaac tccccccag acttctatca catttacaaa tacatacata  480
aatccttaca tacagtancc agtctgggag gcaaaattcc cacanaagca ttgnttgaca  540
catgttgga attnt                                     555
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<210> 8088

<211> 558

<212> DNA

<213> Homo sapiens

<400> 8088

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acattcttat aagtggttta ttgagagctg atttgtcaat caaagaacac accataatga   60
tggaatatt gatgatttca acataaaaaa atttaaataa ggncaatctt tacatagtaa  120
ttaggagcca cttacaagat gtatcaagca aacagagcaa gatacagaac agtgtgtggt  180
tggtttgcta ccatttgttt taaaagaggg gaaagaatat atatgtgcta cagacatggt  240
tatatgctat gtgtactcct ctgtacatgt gcttatacca catgtatgtg catatctaac  300
tctgcacaac cccgggaaag gcaagtcgac gctgatgtca ttgctggctg aggagagagg  360
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tggtggctgt gggacagaat gggaaggac cgtatcccta cataatactt catacctttt 420
 agctttgaac catgtgccat tattacctat tggaataata agntaaaaac taaaaatcaa 480
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 agtntactgg gactggcc 558

<210> 8089

<211> 559

<212> DNA

<213> Homo sapiens

<400> 8089

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 caccagcact ccacctgag agtgagccac tcggtagatg gcaggggaca aggaaaccag 180
 tgccccgctg ctcccgagg gctgctgcag ggctggggct tgtggctctg tgttttgtgg 240
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 gcccacccaa gtggtgcctt ttctgactgg aaccactgta agggtcact atgcccttgc 360
 tgggggtctt tccagcaaatt aagactcttt tctgctgggt tcatgtgtgt ggccttgctg 420
 gaagacaagg gtngggaatt ccttcctttg aaccctttt ccaaagaaac ccatggactt 480
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<210> 8090

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8090

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gcttggaac antggggaaa tnggcttttt aaggact 577

<210> 8091

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8091

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tgtgatgttt tgatacatgt atacattgcg taataaccga accagggtaa ttagcatatc 180
catcacctca aatatgtgtc gtttctttgt gttgagaact ttcaaaatcc tctcttctag 240
ctatttcaaa atatatgcaa taggttattg ttaactctag tcaccctact atgcaataaa 300
acattagcac ttatttaatg tgaagttttt aatacaaaaa ttattttaag aaaataagca 360
caggctgggc gccgtggctc acgcctgtaa tcccagcact ttgggaaggc naggcgggtg 420
gatcacctga gggcaaaagg tctagacnac ctaaccacc attggggaaa ccccgncnt 480
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<210> 8092

<211> 569

<212> DNA

<213> Homo sapiens

<400> 8092

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gcagcacaga tggactgctc cttttcaaat acttcagcca ttgtttgcct tgtcaactta  180
accaacactg taactaagga tcctactgtg atgttggtgc tatcttcac atctaacacc  240
tgtgatttta tatccatggt cacatatgga aaactcccaa ggacagccat aacctcttca  300
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aaatcctgga tagttttaat tttatacttc ttatgattag aaaccgtct aaaattgcct  420
cttcaatatg agggagctgc agaaggggag acttaaaatt gctgaagtcc ctgaacggnc  480
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<210> 8093

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8093

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tgttcaacat ggatcacgag tgcacagaga gagagatcag ctgcatttag tgaaacgcca  180
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gactgtcacg tggactctac acaccgagaa ctgcttcaag gtcgcctgtg tctgagtgcg  300
ggtaaagtga atatcaacac ccaggctatc aggggtgagac aactgaattc catcatgtcc  360
atccacttta caaaggggtg ggaggcacca tggagaaact gaccagaaat gctctgccct  420
gtcacagaag gagacaganc cnaggcagac acgngtgacc tctgggangc caagacactg  480

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gcagtgatng gtccattgg gatgcctggn acttccaaca canaacaggt tccccaagc 540
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<210> 8094

<211> 572

<212> DNA

<213> Homo sapiens

<400> 8094

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aggggaggca gggcagtttc acattttttg aaaggtgggtg gacgacaact acacttgtcc 180
ttaaagtaaa ataaaagcag gagagacca gcagagacca acctgatttg cagtttagcat 240
cagaatctaa atctagtatc acaactttta gaaactaaaa gaaaactatt agaaaaatag 300
aacatnaaac aagcaaaaaa atatacaaat gtacataata aaaaacacac aactcttaat 360
aatggctcca tgttcagtag aagaaaatat ttactggaga aaccacagct attcaggttt 420
gataataaac ccaaccctta ttggnatcat tacccttaag tgctccttaa ctcatggaac 480
tgaangnca acttaagcng gaacttatca tcttaataata tatatacttc tcaaattgga 540
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<210> 8095

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8095

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gtgtcctcac atggtggaga gagagatcat ctctctggtg tctctcctta taaagcacta 180

atcccattca tcagggctcc accctcataa cctaatacacc tctccaagac cccacccccca 240
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 acacgttttt agcacactgc tgatgtccga caggcctggg tctgggacca gtgtgtacca 420
 acaagcatgg tctgtgggggt caactgtcac gctcctgagg aagacaatgg gccctgcttc 480
 tnttccancc tgtcngngct ntactgagtt taatttccca tcaatactgg agngngncc 540
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<210> 8096

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8096

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 gggacagttt tcagggctcc agttgcttcc ctggcttgaa atcaccttg tcctagcaga 180
 ggacaggtta aggctgccag aggcagaggg tccctgaccc tggcccggag acagactgcc 240
 caggcaggcc ctctgatacc atcttccaac catggcagcc tccaggaaaa gccagatcca 300
 tttaggagat aacaggaagg tggctgtgat tgacaggaaa ggcaacatgg ttcctcanca 360
 tcctgtgat cacacctctg ggaggggctt gctggattga aagaggacct aagaatcttn 420
 ctgggacnag gacagaaatg ggatctaagt ctacttctna ctnacattcc cgcttgtgac 480
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 ancctttggc ttna 554

<210> 8097

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8097

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cctgaggcca gagtgtgcct ggggatatgg gggacgtgga gggcacccat gtccagccca 180
cctcagtgtt tctgcctcag tgagaagggg agggagttag ccacaagggg gcctgggtgc 240
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agccaggggc tatgtgtgga cttagggttt ggaaccatta aagggtcttg cnacgggaag 360
tggcaggata tgacctattt ttgaaacatt gtgcttgaga acangcctta aaggcagaag 420
cacagaacct gctcgggcgc ttcaataact gaanccccct agttgaaaaa tatctttctt 480
ccanttttac cangcccttt ncttttcaa tgctacagna cacccaaaca gtaggtctct 540
tgttgcccn aaccacagct tcacttatgg gttt 574

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<210> 8098

<211> 572

<212> DNA

<213> Homo sapiens

<400> 8098

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gtgacatcca ttacctact agtccaactt ctccagacta acgcagactt ttctcttccc 120
ttggcctttc ctctctcgc cattgggcca attccttcga tttctcattt cccttgaagt 180
tagggccatt cacagtttca tggtaaagc cagttccagg ttcaatagtc tgtgatttat 240
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cggctctcaa actctgggtt caaaaaaac tgagcatggt gagagaagac agtgtcaaac 480
cgaggccctt ggaggacctt tggaaccctg atagtctgnc atacngaac ntggatttct 540
ctaaaggtca aactggnntt actngnga aa 572

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<210> 8099

<211> 518

<212> DNA

<213> Homo sapiens

<400> 8099

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gaaacaaggt gtctggacgg accacaccca taagcggctc tccgcaaacc caggcagacg 180
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ccagagctag tctcagacca ggaaggagc tgggcaccag agaagcgaca tcacgtcggc 360
acctgtaact cccgggatcc gtaattgggc cccgttccc ccancctgc ccccggccca 420
ctgtgcgttc ggcagctcag gttaaaactg angggaaggg atacattana ccgcagcccc 480
aaggttgncc cacttggttc anggaagtan gganccan 518
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<210> 8100

<211> 595

<212> DNA

<213> Homo sapiens

<400> 8100

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actgcttagt gacactttat tcaaattaca acccatagtt tttgctcaa aaaatgcaac 60
acctgagaaa ggcctgttgc tttaaaatca agaattctata aaagcaatgc caccctaatac 120
ttaagggtgt tcttaggtat ttcccaaage tctttgctct tttatactgc agcattttca 180
ggaggagtca ttagatactg tcaaggcca agaaataact aaaaacaaaa aataacctga 240
gactcttttc tgcaccgcca ccagctgccc agtacactag gtcaccttt acagcagtga 300
gcacagcaat ccatgccaca aaaatcctca caaaacaaga aggaaaggta caaaaagaat 360
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tatattaaaa tggtaacata cacttgtatg agggagggat atttaaaatt aaaatattat 420
 catcacaaga aacaccagat attccttgct ctgcccttgg gcaaccaaga aacttaaagc 480
 ctgntttata tccanaaaat taaagagaga cctgatanaa gttacaatgc tcaaagcttt 540
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<210> 8101

<211> 581

<212> DNA

<213> Homo sapiens

<400> 8101

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 atccccagag gtgtttacac aattcccaat gaccagtgc gcttggaagg gactgaggct 120
 cgcaagtggg tggcacagtc ggctcttcag tggctccaaa gtgagcccct cacaacagga 180
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 aaacacttct gtgagtaaca gaacctggaa ggaaaagggg caagggtggg gccttggtgg 480
 caccgnacaa gacgtgcccc aagcttcttt tcaatngact ggcaccttcn ggcaanaaaa 540
 acccnaanc cttggggctt aaggtttggc ctttccaatt t 581

<210> 8102

<211> 569

<212> DNA

<213> Homo sapiens

<400> 8102

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tttaaaagtt gagaccctgc ttacaatat ttataattt taaaaaagg cgtttaaagg 120
 tgataggtga cttataaatt ttccactttc aaaatgggtt tctagacact gttgttcattg 180
 aaccaaaaac aaacaaacaa acaacaaca acaaaaccca aacactttgg caagcaaagt 240
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 gagtaaattg aaaccatgtg cttattaact cttctatata aaatattgaa cccccaagtc 480
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 tatatatattg ccatttttnaa aaanctcaa 569

<210> 8103

<211> 519

<212> DNA

<213> Homo sapiens

<400> 8103

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 ggcaactcctg ggttgaaaat gaaggcaatt atcacattac tgcagtcct gactgagtca 180
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 gtgctttaa tcattcttna cccatgctaa gctgtgatcc cttaccaagn ctatgaaacc 480
 ttggaaaaan gagtgaaaaan tcccccgagg gngtgtgng 519

<210> 8104

<211> 585

<212> DNA

<213> Homo sapiens

<400> 8104

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aaaaaatact tcttgctttt atattacat cttcccccat taggcctacc tgcatactgn 180
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agacacggta gccgacatat gcaatcccag atctctggag gctgaagcan aaggatcctt 480
gagctcagga gtttganacc cgcttgggcc atattcaaga ccncngaaa aatgtaaacc 540
ccgggtgatg ggcacacctg gggttcaant cttggggagn ttagg 585

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<210> 8105

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8105

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attttaaaat agctcaaaaac tatcttgcac ttttaatatit taaaataaaa tctataatat 180
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caagtcatac tgggnaggtga ggataaagct taatggaaca atcngggacc annaaaggct 480
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<210> 8106

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8106

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gactttgact tttccaatit tttcaatgat aatctttttt cctgataata tgttcacaat  180
caagtaatac cagggactgc tgagaagtgg atgatgaagg gtgataagat atagactgtg  240
cccttctctt tgcagctcct gagaggggat gggaagggat tttgggaggg tgagaaacag  300
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ggaggactan ggggtgggaaa agtgaccttc tgcttgagga tccagtccac ccttnacca  480
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<210> 8107

<211> 516

<212> DNA

<213> Homo sapiens

<400> 8107

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tcagtcactg tagcctcact gtatgatcaa gggaggtggg gattatttag tcaaaaagga  180
agaaggtagg aagaacagga ggtggaaggc tggggaggtg gggacaaaca gaaagtaaaa  240
ggtcattgtt gcctgtttga atccagaaaa aaatgcctgg ccctatggag gggaaggaag  300
ccccctcagag gggaggcagt gggctggagg gaggcagccc tgggatgacc ccatccccag  360

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caccacggga tctggcgggg gcagangang ggccgaggca agcgctgggtg gaagaaccgg 420
caggggcctt cgggaacctc tgggtcacac tggctactgn gtacttttgc cccctttgtg 480
ttnccegant aacttcccna atcctaantt ccnaa 516

<210> 8108

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8108

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ctcccaaaac ccagctggaa ctcaactaat cctaaacgaa aactcaagaa cagcacacca 360
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gttttctct ctaagggcac ctgtctgaac ttggagctgt gttcactgg tgcctcatgg 480
ggcctggggc ctactnttca cctgaattca cacttttctc tataaggnat cangtggggg 540
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<210> 8109

<211> 581

<212> DNA

<213> Homo sapiens

<400> 8109

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atcaatcctg aaggatcatt tcaccaaata ggaatttggg gttgacagag ttttgttttg 180
 aggcagtctt gctctgttgc ccaggctgga gtgcagtggc aggatcttgg ctactgcaa 240
 cctccacctc cgggttcaa gtaattctcg tgcctcagcc tccaagtag ctgagattac 300
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 tgttgccag gctgggtctc aactcctgac ttcaagtgat ctccccacct tgggtctcca 420
 aagtgtggg attacaggtg tgagccaccg tgcccagccc caagttgata gttcttctgg 480
 cactaaaaga cttgtctact tccttctggc tncatggttt ncagagagaa atccctgnca 540
 tctgagttac ttttcctct anttaagaat tcacttcttc n 581

<210> 8110

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8110

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 caaatctggc tcctggcagg cattcaaata attcttaa at gaagagatac aaaagccac 180
 tgagtcattt atgcaaatca gatggagtgg cggctctctc cacaattccc aagtacagct 240
 tccacttttc cctcaacctc tcataaagtc acagagtaaa tagaaggtag gtttatttct 300
 ccagtcttga aattaacaat ttcaagaaa acaattatt agaataactg gtggagtcac 360
 agacatattt ctagctccat taggtcaaag gaaaggaaag aggacaaggg tagaaaggag 420
 acaagccctc taagaaactg tccattcagt ctgtctgcag tcaatatgaa gagatagcct 480
 ttggagctac agaaaatatt acattgaagt ggattatgct tgctggtaaa gaagctgggt 540
 ccaccgagca gcagcnngaa gacgaagact caaatgttnc ttagtagc 588

<210> 8111

<211> 581

<212> DNA

<213> Homo sapiens

<400> 8111

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gaaaaggaag gaaaatattt tattaaaagt tttttaagt ttatgaattg aagtctatga 60
aaacaaacta cttgatncaa aaacattcag atattagatg tcaaaataaa tcagcacatt 120
tgaaaatact ataaattata tttcaaacia atatatacnc attatgttaa ccttcaacag 180
gatccattat cactacttan aacactgata tgtttatctc ttaagtatgt aaaaattaca 240
tagctgttaa ctttgtatgg caattcacct ataacacatt taagaaagca ttacaaaatt 300
cattatatga taattctaca aaagttttct cacatttacc aaagcctact aaagtccana 360
gggcacaaat attggccaaa tagttctttt atcttagaca taaagatggt tttgctgntt 420
tttagaacca ttaagatggc taagagaacc aactttacga gcttaactgg tctcangcat 480
ctgaatgggg gtgtggagaa gtctcaagg tccaagaatc gcagntcctt ttttnggtga 540
aaaaataaaa ccttggattg gangcattcc cgccaaangn g 581

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<210> 8112

<211> 593

<212> DNA

<213> Homo sapiens

<400> 8112

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cctgctcatt taattatttt tatttacaca actttttcca tcatcatgat gcaaataaga 60
ttataaatac acaaacactg gagtacatgc aacacattcc acaaaggaac aaaaatgtac 120
agcactacag aatagagaac ccaaattttt atatacaaag tgctttaaaa aaaaagacct 180
tgtgacatat tcaaaccata tttatttgaa tactttccaa taattacat gggatacatc 240
atttataaat aatatttaat ctcccctatt ttttcaagcc agaatttggt tttcaactaa 300
tcaagtgaac agccattcca ttatgtaata ttaaaggcaa gtcacatagc atcaaatga 360
aaccggtggg cttcttgctg ttttctcta tcatctgctt tcttttcctg ccaatgtaaa 420
atgccaatta ttgccaagat gaaaacacag acaccgatga gagctatagc agtaagcaga 480
acaatattac ttgngnaag atcagtttgg gccttcaact ttganggaca ttgtganggg 540

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atggaatgca attagctngg gaatttggaa ggattgcggc cactnttgnt ttg 593

<210> 8113

<211> 587

<212> DNA

<213> Homo sapiens

<400> 8113

gatttttgcc ttttgatgcc tacagtaact gagaatcaac aaagtaacta gtctgacatg 60
 aaaaatgtgg tgcctatgat ttaagtcctg atttgagcac atcttaattg gtgcactatt 120
 gcttttgata atccagatat aacaacaggc aagcagtaat aaatgaagag acttactatg 180
 tatcacacaa gcaaggtttc tgaattacaa ataacttcaa caatgacatc aaaacctatg 240
 aattaaatct taactcacgc ggttataaag ttaaattctc atgtgtctta gtgagaatgc 300
 tatcatcaaa tacattctaa attctttcat tttttagtgt acaaaggtta tgggagaaag 360
 gataaggatgc tttttaaata agctaccact gactcacaca catccataca cgcatcagtg 420
 caaactatga aaaacactaa ttttaaaatg aaataatgat tatctagact aaaaggagac 480
 tttggaatag aataattttc catgactaat ttggttacca atatngatac tcaatgnaca 540
 tattgtcacg aaatattcaa gaatacctt atcncctgggc nttaaaa 587

<210> 8114

<211> 566

<212> DNA

<213> Homo sapiens

<400> 8114

cctgttataa agngatttta ttaaatngat tnggacatnc tgtaggtcaa ataatatattt 60
 ctgaanataa caattatgga ctttaaagct cgacataaaa ttagtagctt caaaagggtt 120
 agtcatattc cccagcanca gcatgataaa ataattcaac tatgtanaaa tatanaactn 180
 taggactagc tggaaactcg gaaatcattt ancctaangt tctcattttg agagaaaact 240

anactcaaag attaagcgat ttgcccaagc tcacatacct aatagtaata aagctagaaa 300
 tcaaaccaat ttttcctaaa actaaaattc tatcaatgat atttcaactg gctatcaact 360
 aaaagtctag gcttttctct aatgctccac nctattgtga catgaaagag tgataagaca 420
 ctncagtaaa tcgacttgng gaattcaggc ctggaggggg ctttgcaaaa taactaagcc 480
 cgccctnttt tgtaaaaagg nggaaaagtt ctgaagggtt tccaaagctt gttaccaaaa 540
 agtctggatt aaatcccaan ttgcca 566

<210> 8115

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8115

ctgttatctg caaataagca ctttattacc aaatagttca gcatcagaac aagaattcta 60
 attccaaaag ggtttcttta cattacatga cattgtgaga tacacattag aagaatctga 120
 gactatgttc catttcagtt tctcttttgc aattaggtaa tttgttttga tctaaaaagt 180
 acaaatttat ctcattcttg ttaatgctgt ccatgaaatg taagtatcag ttccttctca 240
 gctagtgcctt tatagttata ctggtgccag gttaagagac ctattttata gtgagtgaca 300
 tgaaagtcaa ctacaagaaa agcacattgt cattttcatt tacagaggca agtccctctt 360
 aacacaaaga aaagcaaagg accttatgtg attatgtaag gcagatcagc ccaggaattt 420
 cattcaaaga taatacttca tactccataa tcccatgtga gaaattaatg aatgactcca 480
 agtaaaaaga aaattaaaat tagcccttgg gccttgacaa tttaattgcc agggcctttg 540
 ncaattctaa acaatggtct aaattancnc aattctcaga atgattacc 589

<210> 8116

<211> 546

<212> DNA

<213> Homo sapiens

<400> 8116

cattttaaca acatttatta caaatcacat tttataaaca ctagataaat tanntataaa	60
agctagacat aaatataaag aagcaaaaca aaaacagcag tactattaat gcaagagaaa	120
taagctaata taatatttaa acacatataa cttaataaaa ttaccaattt ttcattgtta	180
ataatttttc ataaattcaa aagctattca gaaatgaaat gtaatacatt ctgattacta	240
tcaaaggtta gaattataga aacaaccata gcactactta ttttttaaaa tcgtttcaaa	300
cattcagaag ccaaagtact gtccttaaag acaaattaaa tgggtaaaag gtcttatnta	360
acagaagaat acaaaatttt aagctttggt taataagata ataagtgtag tggaaatttt	420
taaattaaca tctcccttat atgtaatat cctgagttgg tggctcaaat atcataaaga	480
acttagtttn tancittatt ataacattgc attntatntt tgaaaaacaa aaaagnnttg	540
gtnttt	546

<210> 8117

<211> 594

<212> DNA

<213> Homo sapiens

<400> 8117

cctttagaca tttacaggta tttatttgag taagagctca taaaatatat ttttataata	60
tgcacaagaa aaaatacatt tgaatgaata aaaaataaaa tgacaggagg tgacagaatt	120
tagtgtttat aaatgaggtc ataaagaact ttaataattc agagaagaag ttcaaagtgt	180
atttaaaagt tgagaccctg ctttacaata ttttataatt ttaaaaaaag gcgtttaaag	240
gtgatagggtg acttaataat tttccacttt caaaatgggt ttctagacac tgttgttcat	300
gaaccaaaaa caaacaaca aacaacaac aacaaaaccc aaacactttg gcaagcaaag	360
tattattagt acatagcagc ttcataacag tttacttttt taatataaag atttttcaat	420
ttacacttgt aggagtagaa aaaactaata tgctaagtct gtaagctacg cagcaaaaat	480
aatgatctta atgaagccag aattctgtga aaatgtgcac ccactgcata tatagtagct	540
gagtaaagtgt aaaccatgtg cttattaact cttctatata aaatatggac cccc	594

<210> 8118

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8118

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acagtataac cgttacattt tattattagt tattgttgtc aatctcttaa ggtgcctaata 60
tcataaactt aatcacaggt atgtatgcat aggaaaaaaa cagtatgtat aaggtttggt 120
attatctgtg gtttttagaca tccactgggg gtctgggttt agatatccac tgtatcccct 180
gtggataagg gggtaactgc tgtatctttt agtagaagca agagcagccc catgtggggg 240
ctaacttggt acactgggtca gtttcagctc ctcatgcaaa gtgagggtat ccttgtggct 300
ccagccctgg ggccccctgc ggtcaccttt ggctccacag tctggttctt gaaccaagg 360
gcagacagct tgctacagcc caggcctgag gatgcacttc ttcaccagga cccacaaccc 420
ctgccccatga agacctgtgg agctcanggc atccctgatg caagttggtc angacctgcc 480
cagcttgcac caacanggtc tgcgtcttca tntgaccagc agaccttga ctnntcacca 540
ctggggganga ctaaaggntt ta 562
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<210> 8119

<211> 549

<212> DNA

<213> Homo sapiens

<400> 8119

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cttttttagga ctattcaaag taacaaactt tttttgttgt ttttttttgt tttttacatt 60
tttgctctgg tcataaatat acagagaaaa agaggagag aaaaatgaac aagtcattcca 120
aagtatggag ataaaacagt attcctaagg cacgtggcag tctttgaaaa tacagaagct 180
ctagccaact taaattattt gttgtttttc ctgctcagc ccacaaaact gtacagtgc 240
acaaatgttg tgttgcaggt agatcttcca agttgttcct cgtccacac cgctgcatta 300
gccgggcgca cacttctttt ttttacctt gtttccaggc gagatcctaa aatgtgggta 360
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agttagtgc tcaaagcctc tatTTTaaaa tacacttggā attcaactaa agataattnc 420
 ttttttaaag aaattgnggg gtgaagggtt gcgagtcatt agaaaaaggt tggtaanagt 480
 cnttgnagg ggcttaaggt tatggccttc caggttgcca gccccnaagt taagaccggn 540
 cnccaantt 549

<210> 8120

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8120

caagagacag ggtcttgctt tgttgcccag gctggagtgc agtggtgcaa tcatagctct 60
 ctgtagcctc aaactcatgg ccttaagtga tcttccttcc ccagcctcct gagtagctgg 120
 gactacaggc atgtgtcacc acattttgta gagatggagt ctgctaagt tgcccacgct 180
 ggtctccaat tcttgggctc aagtgatcct ttcacctgg cctcccaaag tgctgggatt 240
 acaggcgtgc ctggccacag atgagaggat ctctgcagca gatagtactt gtgggtgcga 300
 gacctgtcca gggcttgatt tgaggagagg agcctgaggc ccctgcctgc tccctgggtgc 360
 tcaggagctg ttcttgggcc cctgttgttt cctccgctgc cggcccaact ggcggaagtg 420
 caccgtttg gggttgaggc caaangcctg cantcttttg gcggctgaac tcgcattcac 480
 caagcattac antnggggnc caanaaccg gccttnttgg gccttcttcc gctttt 536

<210> 8121

<211> 565

<212> DNA

<213> Homo sapiens

<400> 8121

atttatgaaa cagtttattt ataaaaacag tcataagaaa gcagaaagca acttccacta 60
 gctatgtgag attttgaaag ttctcgaaat cagcttatgt aagagactat ttccaataat 120

aacagaaggc tacaaaaatg tcagaccaaa atagtaggca gaaggtagaa aactaaaccc 180
 tgagaataat agtcattaag aagaccttga tgtagacatt gcatatgagc atggagattc 240
 aggaaggaaa ttctggatga ctggtggctg acaactttca aatataataa atagagatag 300
 gacttcaaaa gaacttcaat aggaatatat gattttatag tagcacctgg ccttacttag 360
 aataaaatcg tttgttaciaa ctaaagccag catacatgat tcgcaatagg agtaaacttg 420
 ctatagacat tcctgncctc aaatgatttt aaaacccaat tttctaagac ctcntggaac 480
 ctccagagac cacttgggta agttctggta tatctcatat ttaaangctc aacacctgaa 540
 aagctcaggg attggaaaac tntga 565

<210> 8122

<211> 535

<212> DNA

<213> Homo sapiens

<400> 8122

gttaataatt tgaagatggt tattgcattc tatttttggg gggaaaaaaaa tgtaacatac 60
 atttatttag cagcagattg tgaaatacac aaaacatgta actgagaaag caggaatttt 120
 ctattcctag tccatttctg aggactaaat catgaactgc tcccaatgta attaaatatt 180
 tcttacaata gttgggcacc aagttaaga tttattaatt ttctcctctc agtataggca 240
 gcaattcacc attttctttc agttcctaaa aataaaaaac aacaataata atatgtatat 300
 gcatatataa aaagatggaa acatctaaac aatcacagct tgtatgtata tctgagaacc 360
 aaaagaaaca cctattggat taaaactcca gtctcttaac actctcaaac taaatgagcc 420
 ataaaccctg aatacactat canggtaaaa aatttaacca ngnattcttg gncaagtgtg 480
 gnggctccaa atgtaatncc agcacttttg gaggcccagg tggcnaaaca cttga 535

<210> 8123

<211> 573

<212> DNA

<213> Homo sapiens

<400> 8123

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aggttctgcc agaccacctt ttattacatc agaaaagcaa cactaggcac tagatcttgc   60
aaaatatgtt ctgaccaact ctaaactgtc tgaagttata accatatcag taagggtttt  120
aatgaacaaa aaagttaa ataaactttc atatgcaaaa tagattattg tataactggc  180
aacctcagag ccaagtacta aattttcttc cacaaatttc agtggggatg gagtggggag  240
atgttagtct taatgagtag aaaactta attagactta tatatagaaa acaaaaactc  300
tgaggaaaaa tagcttttaa ttgaatagta tcttttgaaa taaacagctc aggccagccc  360
ctacaattct gaggtttata ctcaaccaga tctgggatga aaatgaagat ttagggttta  420
cagtacttca aatccatgaa tccagttgga agactaacc agtcaccaca tttccagaaa  480
ggggagtctc ttttaaggga cccacactt tttcggaaga ngccttgggt aggtcanant  540
cccttgggca caagttccac tggttacggg act                               573

```

<210> 8124

<211> 584

<212> DNA

<213> Homo sapiens

<400> 8124

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gggacggagt ttcgtgttgt tgcccaggct agagtgcaat ggtgccgtct gggctcactg   60
caacctctgc ctcccagggt caggcgattc tctgcctta gtctcccagg ttcaggcgat  120
tctcctgcct cagcctccca agtagctggg attacagggt ccaccaagca cggctaaatt  180
tttttgtatt tttagtagag acggggcctc accatgttgg ccaggctggt ctggaactcc  240
cgacctcagg tgatccgccc acctcggcct ccaaagtgc tgggattaca gacgtgagcc  300
acagcaccca gccgggactg tttttactgg aggaggggga gaagacacac agtggggaaa  360
gcgttctttc aatatgcaga tgcttcaggg agaaccacac tatttactg gtattccccg  420
taccaccgga actggtgctt ggagcggaag ggaagtgaga tcagtccant agtcaccaac  480
accattatta gcattgncca aaaagtcaan agccgacatn atggaataaa acacttgctg  540
gcaatttatn tgcccttttt naactctctt atttttaggn anat                               584

```

<210> 8125

<211> 605

<212> DNA

<213> Homo sapiens

<400> 8125

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aaggaatatg gttgcagcaa aacagaaagg atcccaaagt ggtaggggc cttgtctaata 60
gcacttctga aagtccatta taaagatgaa tagaaaagca aatggtaggt tttcagttga 120
cccagaaacc acacatagct ataagaaaca taattgngca tagttattta ttcattcaga 180
atgtgatatg ttggctagct ctacattccc agtctaccaa agaacagggc tgtctacttt 240
gctaaaccca gggtcctttc gaagctccca gtaggtgtcg ttagaaaccc aggcttctct 300
ttgattggca tcaataactt ttttaaaaaa ttttggnata tgttcaagat tggtttcttc 360
catatatcgg ctccgagaac tctggagttc ctctactctt gnttcttgaa gctggaactt 420
ctnaaattcc ttttccaaaa actttgactn ggccggaanc cggccgtttg ttggtggaag 480
gagatctttt agtcctggac tactcattgg gctcaanncc aaccttgggg aagccctant 540
ccagttcata gttggtggca tggaacctgg ctcccaaagc nctttgcaaa nggggcncac 600
ccnat 605

```

<210> 8126

<211> 508

<212> DNA

<213> Homo sapiens

<400> 8126

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agacaagtta cagtttaata atggtggtgg tgattgtttc tttcatttta ttattattat 60
ttttttacaa taagggtgta gcctttatac tccacacaca caaaataaaa caagtgctta 120
ttacgaaaag agtccttgcc cccacccctt agaacatcct gaacatagca attcaacaga 180
acagaaaaat caagacgttt gatttcaaaa tttcaataaa aaagcaaaag tatgtaatgc 240

```

aacagctggt caacttccaa ctctaaatag gcaccattaa acaaaaaacc ccagtatttt 300
 aaatttctcc agcacacatt ccaggatcaa tgctctgaac tgtaatcagc tagtaattca 360
 taacgggaat acagccttag aatggaagct atattgcttc cctgccccct ttntntacaa 420
 ttggaaagtg tanggattaa gggatccaan tcngaaggag gattatttaa aaggaaaatg 480
 nccaagctg cactgtttgg cnttgga 508

<210> 8127

<211> 596

<212> DNA

<213> Homo sapiens

<400> 8127

gttttagct gctttacttc caaaaagaaa aaaaggcata gctctctttt tcaattaaac 60
 agaaaactac ataattacgt tcaaacactc actgaagagc ctgcctcatg ggaagggcag 120
 ggctgtcgtg ggaagagtca gctgcacttt ggcaccatct caggtgcctg tccaagccgg 180
 atctgaatgg gactgggtcaa gtgaggggtc agtcctgcag tctgcgtca cacctcttct 240
 ccagatctgc catctccttt aggaccaggg ccacgctgta ccgcagctcc tggaacttgg 300
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 tcggctgcag ggagcgagcc agggcactgg tggagattgc tacatcacc gccaccgaaa 420
 gtcagcaaca tgcngnaacc aagccccctg ctgctgggcc cagaatcaag gangggcccc 480
 tggcttccaa ataccacgct tggcaagttc ccgaccaggt ctttggggga tgcaaaactt 540
 ctggancttg ggcccgaaaa attangcttt aggttgtggg ggcaaacgan ggcctt 596

<210> 8128

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8128

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 ctcaacatca tttacacttg aaaacagaaa agcncaactt ggtaaggcac caggttacga 120
 tagtctggan anaaggcctt gctcccattt tggcttgngt aatacctggg tagtttctct 180
 tgagtctgtc aagcagagaa caagggtata aaagggtccat ttatacatat atggtaacaa 240
 gagataacaa acagttttga agtatgctgt atttataaat tataatggng gcctacactt 300
 gtagttcagc caaagtggca ttctctaaag caaaattctt ataaaatctt ctctgcaata 360
 ccaagctgca agtttaacaa ttttttagct ttgaagtga ccaactttat atttaactca 420
 aacacatact ttaaaaaacat tttcgggccc aaactntatg ttcacgaaga aaataaaaaat 480
 ggnggaaaat ctcaggttta atcggacctt tactattcta ttaaagccg caatntnttt 540
 taaaaaccgg tggcntttta nggcaacccc ttgaatttta accctaccg 589

<210> 8129

<211> 418

<212> DNA

<213> Homo sapiens

<400> 8129

atttgtacat ctttattatt tctaaagcac tttcctcaac ctaatttcag tttttacaat 60
 tagtactcaa gaaaatagag acagaaatca tttgattitg cccagaaacc atctgcttat 120
 atttataagg ccacctaatt tgaaatcaca tatagaccag gcgcggtggc tcacgcctgt 180
 aattccaaca ctttgaagg ccaaggcagg tggatcacao ggtcaagaga ttgagaccat 240
 cttggccaac atggtgaaac cccgtctcta ctaaaaacac aaaaatcagc tgggcgtcgt 300
 ggacgcacc ttagtccca gctactcggg aggctgangc aggagaattg cttgaacca 360
 ggagggtggag gttgcantga gccgaaattg ngccactgga ctncancctg ntgacnga 418

<210> 8130

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8130

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acatgcctca ctttttattc caagaaaaat cccattatg caatacaagg gtgaaacagc   60
tgttacaaat acacagaaac ataataaaga taaccaacac tgtaagagg aaggggaaga  120
ggaaaaaacc caagagaagg aaacttttcc acagtgacta gcagaatgtc ttgtagatac  180
caatgaccga agacaaacag gttgctcact tcctcctatt tatcaagtca tcctatctaa  240
aatgagaata gticcatgcct aggataggct aactataggc ttgctagtc ctccttccta  300
atagaatgcc ctcagattat tcctgagcta tcaactcaagt cacagatact tcagaatata  360
atcttaggtt ttgtaaacag gaacatggtc aaaatgcaat acaatgggaa aatctctaca  420
agagaatgag atttggaag ccatgcttaa agtctctgag ccacacaacc cttagaatc  480
ttcgagtacc gtttaatctc tcatncagga acanttttcc ttacccttg naaggttgtg  540
aanaaatgaa ttgcnttatt ntgccagaaa gctttcccat ggaagggn  589

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<210> 8131

<211> 481

<212> DNA

<213> Homo sapiens

<400> 8131

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aaagtga aaa aatcttttac actttatgta aatgatactt aagtatgaca aagaggngat   60
aattcaagtt cgtaactagt aagtcactaa aaagataaat gcattcattc atgtaccaca  120
aaatcagaga agacacgagg acatgccgca gtcagtga aa tagccgagaa atcaacattt  180
tactagttat ttgttcccaa actattacca tgtgtgtttg gtatgttaac aatttaaata  240
tccacattag gctaaacaac aagcacctgt cagcagtgga aacaaaaca ttttgatgct  300
aaaaaatata caagatattt agacgctatt tcattggttg tcaaaaacag tgactactgc  360
caaataatta aatttaaaat attgtgccag gtcctctcag ggaaatgtga aaataatact  420
gacgatctca ttgncattgc tggatattta ctggaattta accaanggn naagntntna  480
a  481

```

<210> 8132

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8132

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cctgaattag aagaatatgt attgaacctt ctcttgaaca gaatgacgag ccttttgaag 60
attnnatt taaagggtgt atgttcttaa atggcattaa aaagttacga aaatccatca 120
gtacagattt tagtgaaggt tgctccattc caactggtaa aacacagaag taaaatgcca 180
gtctcagggg atctcaaaaa ttcaggggaa gagtcagtat gtgttccaaa tttaaacaat 240
ctctaccaag gagttgcctc atagtgttta tttaaattct aaatcaagca tggaagtttt 300
cagaatattt gatattttca taaaatgtcc ttggaataca aaactaataa attcaatgaa 360
gtgccacacc gccaggggtt tacctgcaaa atctcagccc tgactgaaca aagcccaaca 420
attnnatt taaagggtgt atgttcttaa atggcattaa aaagttacga aaatccatca 480
agcncnatgt tcccttngc tnaattcatg gttaagggtt tttccccaag ancttgtttt 540
aaggccngct ngataagaag ccttcctttg g 571
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<210> 8133

<211> 592

<212> DNA

<213> Homo sapiens

<400> 8133

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gagctttaa ctgtacttta attttcaata actgtaacct actggttaat ngaaccaaac 60
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gttttaataa caaaaatggt actaaacgca gatgaacatt aaattaatac agtataaaag 240
agaacagctt aaataaactg gtattcacat attacaatag caaagttatg acagaatgaa 300
ctgaagacac gaacagtttt gaaaattctc ttttcagcct acttccaaat agaaatagtc 360
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aggctttttt cctgtacata gtttgatgct ttgtctatac catatatagt agaaaaataa 420
aattcttttag caacctagaa acagttataa aaactcttaa aggttaattt ttctttgcca 480
gacatgccaa ttgttaaact gggccactnt taaattaaag cttttttgac catagggttt 540
aagtaatttt nacagggtta gnaatcctcn tttnccgatt ttttttaaaa aa 592

<210> 8134

<211> 463

<212> DNA

<213> Homo sapiens

<400> 8134

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gaatcacaaa atcgagcacc acacagctgg gtgtcggcga cacactcacc atgacagtgt 180
tccacctcaa tgtagccact ctctgggttt ctgctcagct tccagatatg cacaaggtg 240
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cgggcatggg cattgatctg gacatgtaga ttctctgtag tggcctcata tagatgcact 360
tgtccgttcc catagcctgc tgctatgac ccctgccaca gctgcacaga ggggcacgga 420
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<210> 8135

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8135

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gcttcctctg tttatatattc cttattcttg atataaattg gagacagata ctatttataa 180

ataatgcttt ttaaatagta aaatatacaa gagattcctg agcataacaa aaatatcttg 240
 aaaatatgtg gctatttgaa gtataaaata gcaagtgtaa gaatagcatg attgtaaaac 300
 tactgtttga aggcattataa acagtacaaa atagtttgcc ttttctgact gcataattat 360
 acattagtgc aaacaaaaat gtctcaaaat ttaatggcta caaatctcaa agatttgcag 420
 aggtgcgcaa aacatggaat ttcttttagcg tcatgcgaac tgaccagtc tcgattaatc 480
 cctttcaaac gatcttccan gnttncggat taatcttggc tgtaaagtgg attcgtcctc 540
 aaganaagna ttctgcttaa cgctgcctaa tctgggcctt tnttttgg 588

<210> 8136

<211> 573

<212> DNA

<213> Homo sapiens

<400> 8136

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 gcacattatg tatatatgta tatatatgaa tgtatgtacg tgtgtatata catacatata 120
 tatacaggaa accaaccctt tttcaacttt agccactgat gagctaggcc cactgtctag 180
 tgcatgactc actttctact tcttcatagg accaattcta aaagtaaaaa taaacaccct 240
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 aactgatcac atatggtaga aacgtagaac tcacacacac accagcacac acagtcccca 360
 atttaaatg tgatgtatga atgacctata tgtacaaatg ggtgctgctg acttccccac 420
 cccaagcaga ggccatgaaa gactnccatt acttcaggga gtccccattc tctatgctgg 480
 gatggaggat gtgtggngtn ctngcaccac nggntagaac ttagaatgca cacttcccat 540
 gcgctgatnc anatgggggg tcaattctat ggg 573

<210> 8137

<211> 345

<212> DNA

<213> Homo sapiens

<400> 8137

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ataaaatcaa caatgaaaag gccagctggc caggcaccgt agctcaggcc ttagtccca 120
gcactttggg atgccaaggc aggctnatcg cctgatgtta ggagttcgag acagcctggc 180
caacatgggtg aaaccctgcc tctactaaaa atacaaaaat taggctgggc gcggtggntc 240
atgcctgtaa tcccagcact ttgggaggcc naggcgggtg gataaccaag tcangagatc 300
nanaccatcn tagccaacat gatgaaaccc cgnctttant aaaat 345

<210> 8138

<211> 592

<212> DNA

<213> Homo sapiens

<400> 8138

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cggcggtatgc tgtgggtgag tggggccgcc tgagcctgct cgggccacat ccacacatcc 120
acagagtcca cctggactcg gaggaaggcc gagaggacac ggacggtggc cacaccacgc 180
tgcagtgaag gcccaagtgt gatggcagag aaagagggaa agttggagaa agagcgggtat 240
ctgacaataa cttttctctt ggatgttaat tttttgtct ataaattgga aaggaaggct 300
cggactgaaa taaatacatt tattctgagt aatgaccttt tgggagcagt gtccgtcaac 360
tctgcttcga gagcgtctcc acgtgagcag cancgctgt ctcgcgcctn gccgaggcgg 420
aaccacaccg gccttcaacg gangcgggtt tctnctngnt cttgtgaang gaaatanacg 480
gtgcgtactg gtcttaatgg aaccggacaa tgaaggcctt ttnttttgac anaaaaatgt 540
ccggcttaac tntccaaga naaganttg ncctaacgtt tncgtttttt at 592

<210> 8139

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8139

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ctaatttta gttccaggat acaagtcag aacatgtagg tgctatatag ataaacatgt 60
gtcatgggtg tttgctgcac ccatcaacct gttgtctagg ttttaagccc tgcgtgcatt 120
agctatttgt cctactgtc tgcctcccct cgacccccac cctcttaaa attcttttta 180
ttttccacac tgagtcttca aagtctggtg tgtatcatac agcacatctc aatagccaca 240
tgcaggcagg gcgcggtggc tcacgcctct aatcccaaca ctttgggagg tcgagggtgg 300
cattggacga tgcaggctct gacaagtgcc tggatatatt tgggcacaat tcttgaatgg 360
acccacgcca atgtacgct cgcttttgcc tgggccgttc cttcttccta gaatgtcctg 420
cttctttctc tttgctaact catgtgaatg aactttttaa aaaattagta tccttcaaaa 480
ctgnanttgc ttaagcgttc tgaagtgang ncctctgact tttcaagtgc cgggtgcttct 540
tgntctgggg ctnttaactt caaaagttgg tctgctgngc ctanttgg 588

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<210> 8140

<211> 584

<212> DNA

<213> Homo sapiens

<400> 8140

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aggtaaaagt tgggtggcttt attcttcctg ctctataagc agatccaggc cctagaaaga 60
tgggaccagg gtatataatt gtttttgaag agtgtgtctac aaaaatggat ggcctgttat 120
aagccaggat acaaagttaa ggatgggggt aaggaggagg cattttcttc cagaagaaaa 180
gacagaattt ctgaagagtc ccagtccata attttcccaa aatggttga ggagagggtta 240
aaatctcaac atgagtttca aagtactgtc tctgtgagg gccggtgat gccttgctga 300
ggaggggatg gctaagtttg accatgcccc atccccagct aggagaatgg aaatggaaag 360
tttattgccc agtgggtgtg aaagtgggct gaagcttggt tggtagtgaa ttctctaaga 420
ggtttcttct agaaacagac aactcanact cttcctctca cttcagcaaa gaagttat 480
ttnaaagccc ttgggaaagt tcctcctcca cccgcangtg ggaaggctca aaaaaggggg 540

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cattantcca gccgctttta ggccgnaccg gaattcctga aggt

584

<210> 8141

<211> 570

<212> DNA

<213> Homo sapiens

<400> 8141

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 tatctcagga tccctaatat ataaaagacc cgcataagaa aaaaacattt gatgatatgc 120
 ataaaatcac aaccacaata attggaccat aattagacta gttaagagat gaggaatata 180
 tgctcatttg taagcgataa gtgattatat aaagagaaaa catgggttaa gtaacacagt 240
 aacattaatt tttgtatata aacaaattag ttatctcaag tccttaaaag tttacatcta 300
 aaaaaacagg tcaagatgaa gaaataactt tgtagtttaa acttccacat gtgctccttt 360
 ggggtggtttt gccttggatt ttgcttcctt tgaaatcttt ccattttgac attgagtaaa 420
 tctggctctg nagaacacacc atccacaaac ttggntttga aaagaacgtt tgcattgggtg 480
 acatccttct tttagggacc cccatgaact gngaattgngt gaaatgggtc cccanattgg 540
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<210> 8142

<211> 582

<212> DNA

<213> Homo sapiens

<400> 8142

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 cctttttaca tacatatata aacactttta aacataaata tcaaatgcat gagaatcatg 120
 tgggcagata aatttaggaa gccaagaaca cagaacgaaa agccagtcac cagatcttac 180
 aaataatcat ctaaacttct ctggccattc aatttgatac attatcccaa atattccatg 240

tcacatggtc cacaaggntt tcttttggga ttctgaagca atcaatagcc atacttgtca 300
 ttaagatggg ttctgccatc tccactttga ccttcaggtg ggacccacac acagtagtct 360
 gggatcatctt caggatattt ggaagaaagt gttgggtgaa gtttgcctgg accangtggt 420
 ttctttttct tcaattcacc tctgcttttc tcatattcat tctttgatgc tganggtcct 480
 gcgcacaatg naatggggtt gctacaggcc tgganaactt aatccggnct tcctcgctta 540
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<210> 8143

<211> 576

<212> DNA

<213> Homo sapiens

<400> 8143

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 aataggaac aatgtggagt actgctgtgc tngccttca ttacctgaga ctacagcagc 120
 ctgcattntc caccgggctc ggaggagtgc anatgcctga ggtaaagcc ccagggtctn 180
 ttcaacagta acccacccca ctgataagtt acatgatacg tgtgtggtgc ctgtgagtgc 240
 ttctgttgga aaggcagggt gaaaaaaatn tgacaggatt ttatttgatt tctccgtagt 300
 tcttctcagg gtttatcttg atgtaaactt gaaatattaa gatagccagt ncagtaagaa 360
 atcaaaagaa tgggagacat ttaaaaactc tctatattct aaacttctct ttagngttgg 420
 aataattgta aaaaaaaaaa aagttggccc taagtctgcc tttatagggg ccacattaat 480
 ttctaaattc ttggatttct aggttaagtca gggaaaaggc aatttnttta acaggcagcc 540
 cnatcaaggg tgcttttanc cctggaacct anangg 576

<210> 8144

<211> 563

<212> DNA

<213> Homo sapiens

<400> 8144

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tacagcatgt	ttaatagtat	gcaatatgca	aaagctttgt	gttgctgtta	gcaacatcta	180
taccaccca	ccctctttat	tcacaagtgt	acctctgcta	accataatta	catcactaag	240
cctgttagtt	tgagagggtc	ttaaatttgt	taaaactgga	aaatctttgt	ataggggctc	300
cattcatttg	actcaagggt	atagacttcc	accgtattca	gaaattcatt	gccatccgaa	360
tcctcccact	gcataaatgg	ngtccctaca	gttgcaatcc	cagcattgct	ccttggtgaa	420
gcatatttcc	catcatcttc	cattcatttc	tagttgggat	catacatctt	cccacaactg	480
atggcatgag	aaccatcana	ggnccccaca	tncnaacagg	gtttccntta	agaacagnca	540
cttccagttc	ttgcctagcc	cnc				563

<210> 8145

<211> 578

<212> DNA

<213> Homo sapiens

<400> 8145

caatttattg	ctagaatttt	atttggttgt	tagaaaatct	gtaagggtgt	atatatatta	60
aaaaaagggt	tggggtgaga	gtggatggaa	ggcagtcaga	agggtgagag	ttattttcaa	120
gttacctaaa	gtgccaggct	aatttgtttt	aacctttcca	agaaagttaa	actgagcata	180
agctataatg	agataagggg	acacattcat	gggaaaagac	ttcatcttgc	tttaactaaa	240
ttttaatact	tctggaaaaa	aaatttaagt	ttggttaata	ccaagctgaa	catcatataa	300
agaaaaaaa	aaacagccct	taaatgttta	agggtaccgg	actgtatcca	tggtgaaggg	360
ctacctgaac	aaagttaaaa	aggaaatgat	ctccactaaa	gaagtctgtg	gcatgacagc	420
tttctctact	ttctccctga	cttggcctat	accaaagtta	agtttttggg	gttttttttn	480
cccttcaagt	tgttgnccaa	aaactgnttt	ttaagaccac	ccagcattnt	agactcacct	540
tcccgaaca	tggaggnatt	attccttcaa	ctanggaa			578

<210> 8146

<211> 563

<212> DNA

<213> Homo sapiens

<400> 8146

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caggctgaag aaatcgttta atccatttta aagaaatctc acatgatggt ctgtcgggat   60
taaaaatata cacggaaaaa aataaaacaa aatatatacn cagaaagaag ctgcacaga   120
gtcaggcgtg cagcaacgtc acacactcat tcctttctgt ttcctctgga cactcaaaat   180
gtgaaagcaa gtaagagggg ggtggttaac caaacctttt ggtccaagga ataaaatttc   240
tttaaaaaat ttaaaacgtc aaaacctgcc agaataagac aatagaagag cgtatcgtca   300
ggcgtggga atggcaccac gacaaggcat taatgtggat tcacttgac agctgctctc   360
ataaaagcta cacgattcag aggtaaccct aactatccgc aatccaacc aaagtcatgt   420
tcatgccgt gncctantct gggacaatca tctgcactta ttcaacacag ntntttccga   480
atgggccagt cccagcaaca agggtnattc agcaggcgtt tttaccgga ctcatgatgg   540
gattcatttt naaatncttn nac                                           563
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<210> 8147

<211> 591

<212> DNA

<213> Homo sapiens

<400> 8147

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gtttttaatc aatacatatt tattgagtgc ctactgtgtg ccagggtcac cacactagat   60
gcaacggata ctaacagtaa ataagatacg gtccctgccc tcagagctta catttcaaca   120
gtttaaagtg catctcaggt atttcagata acagaagtaa ttctaccact ctcaaatttt   180
tttttttaat gcaagacaca acacaatcat aggccagagt tataaaatac aatgttagaa   240
agaaacgttt ggtatcattc gtccagatcc cattttacag aaaagaaact acaggagtgg   300
ccatttgac ctatgttctg atttcaagtt tgggtgtttta cccattgcc ggcctctcat   360
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aaaacaatat tcagatttgc catgtatata tcaatatcca aacgctggta gtatacctgt 420
gcaagttgtc tcctgctaga caaggacat ataatttata gcttatttaa gtgtccactt 480
tctttatccc atcctattct ttggggataa accngaagg atcanggtta acccaaggct 540
taacttttgg ggcaacttta ttgccctaag gattcaaaan gggccaccgg n 591

<210> 8148

<211> 575

<212> DNA

<213> Homo sapiens

<400> 8148

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taatgaactc tcaaacatcc atcacacagc ttcagcaatt accaatttat ggccaatctt 120
gtttcatcta tgtactcaat taccacacac tcagatgatt ttgaagcgaa taccagtaac 180
atatcatttc acctgtacat ttttcagtat acttctctaa aagataatca ttttttaaaa 240
caacataacc acagtacat atcacatctt aaaaaacaat aaatcaagaa gttatatattt 300
tatttcaa at tatgtaacaa ctggggacac aatcaatata tttcactgg atcatgagga 360
agagtgtcac actaaaatgg agtccaagct tttatcgatg caattgcttt ataataataa 420
agaaaaaatc aaacaaacta gcatattaga accacttttg gnaatttgta aggagctgaa 480
gactgntgat atcccatncc atggngaact ccgtagaatt cttctaacat ctttgnatt 540
tcttaaaatg ggtctggagg cactgatgca agncc 575

<210> 8149

<211> 591

<212> DNA

<213> Homo sapiens

<400> 8149

gagatagagt cttgctctgt cgcccaggct gaagtgcagt ggcgcaatct cagctcactg 60

caacctccac ctcttgggtt caagagattc tctgcctca gcctctcgag tagagtacct 120
aggactacag atgcacaaca ccatgaccgg ctaatttttc tatctttagt atagacggga 180
tttcaccatg ttggccaagc tggctctgaa ctcttgacct caagtgatca gcccacctcg 240
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aataaatggc cataattcag tgttctgagc tctgtaacaa ggtgtacact aagtggtagg 360
ggagcagagg cagggatgtc tgtcttatcc tagagggaaa gacaggggca ggataagctt 420
tttgaggaag aagtttgagt ctaatcctta aggaagaaca tgttgggaac atttgagact 480
nttaagcagt cacaggcaca tgggaaaagg nagtttctga ctgcaaaata aataccggta 540
ggagaaaagg gaaaattgac tggatttgga tgacccgnc ctttaaattt c 591

<210> 8150

<211> 597

<212> DNA

<213> Homo sapiens

<400> 8150

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aacattcagg aattaagtga cgaacgcaga gaactgtaag ccgccttggc ctccaataac 120
ccagtttctt tgtgaggctc ttaacatctc cacacacaca cactcgcaca cacctgatgt 180
ggaaatcaaa ggaaaaagaa aacaaagcca aatgtttgtt taatcccgcc ccgccccaca 240
aacccttaaa gtcttaataa ggaaactagt gttctgcttt ctcatataaa cacagaaaag 300
gctcgataca atactaaggt ggatacaata ctatgtcgca caaacgtcgt tgagtgaggg 360
gcctctgctc ccagtccttg aagttctgca aaggaatcac ctactttcac gagtcacctn 420
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<210> 8151

<211> 564

<212> DNA

<213> Homo sapiens

<400> 8151

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aaaattaaaa atgttttatt ggctattgcc tttaatagat ttactacaat aaaggaaagg   60
aatatttttc tcaaattgtc taataagaaa aagaccacagg aaactgaacg atattggaca  120
cagttttcag tgttttagac ataaataaac tcatgaattt catatggatt ctggaatatt  180
taccactact cccctaacga tgcatttagc atagaacaaa aatatgaaca ttggaacaag  240
tccaatctaa cacatttcaa aacaatcaga tctttggaaa actgttttcc ataagtaccc  300
cttgccattc atggaagagt tatgaggatg cccatgaatt tattcatgga cactcccata  360
ctaagaaaaa gaaaaccatg tagatgggta atataatttg actatttgtt cccgccccaa  420
cctcaagttg aaatgtaatc cccaatactg gaggtggggc ctggtgggaa gtgtttggag  480
caciaangng gatccctcat gaatgggctg ggccttcct tnggggaaaa agacttcttg  540
gtctgaagcn tgggccnnnc ttg                                           564

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<210> 8152

<211> 578

<212> DNA

<213> Homo sapiens

<400> 8152

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catggtacaa atgataaatt atatttatac agtaaataag tatcaacggt caacacaagt   60
tcaaaaccag ccaccggcct ntgggactga naaacagctg ggtgatttcc tccaccacgg  120
ngcccatcag gagggagcac gatggcacag gtgcaacatg cgtggcagtg gccggtggct  180
tcatgatcag tgcagtgggc aacagggaca tgcactcggg atggcctgtg ccanaanatg  240
gggcaggggg ctgtcttctt gggctccggt ggcccagtggt ctgtcatgtc ggggcctcaa  300
agtcacatca tgaaagactc gttacaaaag aatcactgac cccaagtagt cgagtctagt  360
ctactgacct gtaaggctgg cccaggccct gcaccgtctg aaggaaagca cttttctggg  420
caagcatcct gcctcccatc ccattgnacc tncaccacct tccccggcag acnagaccac  480

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ccccgggtta cccaaatggc aacgggagcc taaaaccanc cnaaggctgc aatttttgga 540
aaagnggntt ggtangaacn ttaaaccggt tctnggga 578

<210> 8153

<211> 578

<212> DNA

<213> Homo sapiens

<400> 8153

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ccagagagaa cactttatac cataaaataa acttgtataa tttgggagga caaatcatct 120
caaagtata tttttgaatt atgtgccaat tttataatta gtacaaaaat gacagctgaa 180
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tacttatatc gaattccgca caaaatattt ttgcaatatg ctaaatttag ttcttcaagt 300
cactcttcac tgccggctgg cttttccatt ttctgttgtc tccatcccat tttcctcttt 360
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atgttttctg gaattggcag tattgattct attactccac aaggataata acgacactgg 480
ggcccttng atTTTtccc ttngggagtt catccatttn accanggggt ttttggttgg 540
aaggtctngg gaatcagcga actttataat cnagcttn 578

<210> 8154

<211> 595

<212> DNA

<213> Homo sapiens

<400> 8154

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tagtttgaat gtatccctta aaaaatcaca tgttggaac ttagtccctc tgccttcatt 180

aacagattaa ttaataaaag ctttgccctc atacatggat taatgtcact atcatgggag 240
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 aagaaggccc taaccaaag ccaggcacca tgttcttaga cttctcagcc tccggaacca 360
 tgagctaagt aaatttcttt agaaattacc cagtctgtgg tattctgttt agtaacagaa 420
 aactgncttt actaaagaca gtagtaaate tttgtgacct tggggtaagg caatgattcn 480
 tagatatggc tgcccaagt gccaaaaaat ngataactgg acttcatcaa aattaagggtt 540
 tacattcaaa agatnccntt annaaagtta aagaccaccc ccgaatggga gattt 595

<210> 8155

<211> 590

<212> DNA

<213> Homo sapiens

<400> 8155

gaataaataa gcatcaattt tattgaatca tgaataattt aagactggta caatcatcag 60
 ctttattctc tatgacatgg ggcatgatgt ccagcagatc attggcaaat ccaaaaacct 120
 catgacaaat gaaaattaaa taggtaggaa gagagagaga ggaggggagg aggaagggga 180
 gggaggatgg aaacataccg tacacaaaat actcaattcc tagttttctc tttaaaaatg 240
 gctagaaaaa attcatcaaa atgcagcact ttaatcaatt attacaatt tctatgttac 300
 aatgaaaaaa tgtacatctt atagaacata ttccataaaa ctgctccact ggaaacaact 360
 agatcaaaac agcaaacctt ccatttaata tccacaaagt tggattattt ttcctttttg 420
 aagtaagatt cgccccaatc aaatttgaat nccgagaatt ttggaagtta agcctcaacc 480
 accaagtaaa agtccccaag atccaccaag atctaggcag gcttggtcct gtccaatcca 540
 cccancccta atgaacttaa agggtttcca ttcaatattg gccggncatn 590

<210> 8156

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8156

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aggtattcat tctgtttatt ggattgaaag aaagggaata caaacgactg gttaagtgct 60
gcgcactgac atggaaaaag tgtcttttaa aaaaaatccc agtaaagcaa atcaaagtta 120
atgtagtttc agttgaacaa aaatttaaag acgtttaata cattacacat ttataaaata 180
aaagtcaaca aagggtgttt tgtaaataat tagtaaacia gtgaaaataa atatcagaga 240
cctgaagttt ttatacttta atgaataaag caaagaaatt taaactaagt aaatataatc 300
tgagaggcag ttaaaaaaac aaaaatcaaa acccaccaaa attgaagaac acaatctttt 360
gaaacattta atcagtccat agcaaatagt tattacatac caaaaagctc taagtgttaa 420
ctagttcccc acaatgnent gtaaactctt acaatttaga aatcttgaga tccacactta 480
aggtcntttc ttgactctac acttgggttg taagtccttc ctgcttttgg ggactattcc 540
cttgacaccc ccccntttca agnggccata ctttttcat tgggcctaa 589

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<210> 8157

<211> 525

<212> DNA

<213> Homo sapiens

<400> 8157

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gttagtgttt cttttattat aaagcactga aataagttaa ataaacaggt gggaggctgg 60
gcagtccccc agccggtttg tccacagccc ctgggggcag tggaggtgaa tacagggcc 120
ttctcactga gctcatgaag tgcctcagtc aaggcaaggt cccctgggtcc atatgggcc 180
ccccgccc at ggggttgggc tggtccttat agtgcctacg ttagtctgtg tggagcccct 240
ggccagcggg ggagaaaaag gtggcttctg gtccgtctgt ataaaacatg gggaagaagg 300
acctagtcca ggatgagtct gtgtggacag cccggctgcc agcagtcgcc agggctgggtg 360
ggccccgaga gctcaaaaca gaggttgggc tatgaggttg ggccagccc tcagaggcan 420
agagaccagg ccttctgcc ccaccgtggc catgcacctt ttgtggcgct tgtaattgt 480
ccaatggccn tggatataggc ncagtngcac aacngnaagg ctnt 525

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<210> 8158

<211> 544

<212> DNA

<213> Homo sapiens

<400> 8158

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aaaaaaaaa aaaatttatt ggtgacgttg aagaaaaggg ctgaggggtg gatggctgga   60
gctgggggcta cgtaggcggc ccctcctggt cttcctgctg catccgtgcg atcagctgtt  120
gccgctcggc cgcctggcgc atgcgcatca tgacgaggct ctcgtagtcc ctctctgaca  180
gcactgagcc ctttgacagt cctgagtggc tgcggcccac ggcatcctgg ggctgtccct  240
ccaaccagga aatcttcaga gggttatcca ccaggccaac ttcatcttgg acagccagct  300
ccgctgcctt gacggttgca aactccacca cagcagtgcc tggtctctta ctggaaagca  360
ccaggttgag aacctcacca tacttctgca aaagcccgtg ggangacgtc tttggagtaa  420
ccaccttttg actcatctcc ttcttgcaact tncatttagc cttantttgg ggggtccttg  480
gccttcaata ntttctggct ttctntnaac tttnggcacg ctctggggta tntgttccgg  540
ataa                                                                    544

```

<210> 8159

<211> 592

<212> DNA

<213> Homo sapiens

<400> 8159

```

atatagtcac tgttttatttc atggaaactg aagttctgct gagggctgag cagcactggc   60
attgaaaaat ataataatca taaagtctgt gtctggacac cgcctttggg aactagaagg  120
ggagttggta ttgtaccagc tggactaagc tccagttcta gacctcctgg ctcatccaac  180
atgcctccct acctaaataa aagtgaaca ctacgtgcat gtcccagccc cattctccca  240
agcatgggag tgggcgtagg agtggaggag ggggaaggaa aaaggaatta cttcacttac  300
acctatgatg ccctttgccc aagccagaag aaagcaaagg ggaaaagggc tgcagggtca  360

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ttatttattt tcacttgaac atggaaagaa agtgtcacac tcccccttcc ctttataggg 420
 ggaagtgtat tttaatcagc aaccctcttc ttccatncac cctgnngnatg tgtgacccat 480
 ttaccacccc agttgggang catgactagg ctgcccanc tctctggtcc tcctttgaan 540
 anggtttgcc aaatgggaaa aaggaaggac ccnnttaggc aaaggttcaa ct 592

<210> 8160

<211> 438

<212> DNA

<213> Homo sapiens

<400> 8160

gagagcacia ctccaaatca tcttttatta atataaaaag ggcatattta gcaaaagaca 60
 cacagataaa agagtcacta tggctcagga cacaaggcag ggaggtgcca ggcctgtgcc 120
 cctgctgggg gagaaggagg ctgaggacaa agtgggagaa gtgctgggaa gggctgagcg 180
 gtaggggcca caaaagticc ggtgggcaac actgtcggca ggtcatgggt gggactcatg 240
 gggacctcgc tgctaactct tgttgtgggg ggggtgtcctt agtctgcca cctggagggc 300
 cactccttgg ttcctggagg ggaccacca agggacacag gacaggaagc ccaggatggt 360
 tagtgcaact cgggatgaag ccanggagaa cgggtgtctt gcaatggccg gataggtcca 420
 gacgctgagg ccnnnnnn 438

<210> 8161

<211> 575

<212> DNA

<213> Homo sapiens

<400> 8161

gcatttcaaa tatttcaata gttttatttc gcaaagagaa gcctaagaat ttttttaaaa 60
 acatttccag agagaacact ttataccata aaataaactt gtataatttg ggaggacaaa 120
 tcatctcaaa tgtatatattt tgaattatgt gccaatttta taattagtagt aaaaatgaca 180

gctgaaatat tttaaaaatg taaaaaccag tccaggcaac ataactatac catcctgctg 240
 taaaagtact tatatcgaat tccgcacaaa atatTTTTgc aatatgctaa atttagttct 300
 tcaagtcact cttcactgcc ggctggcttt tccattttct gntgnctcca tcccattttc 360
 ctctttaaga tgttgatata gttcagctct gttattaaca gagttcaaac cgtncagcaa 420
 attcccggag gtttctggaa ttggcagtan tggatctatt actccccaag ggtaataacg 480
 acctggncct tttgattttt ccctgnggag ttcatccttn aacaagggtt tttgttngaa 540
 ggtcttggga acagcgaact ttataatcta gctcc 575

<210> 8162

<211> 581

<212> DNA

<213> Homo sapiens

<400> 8162

ccaagacaga gtcttgctgt caccaggct ggagtgcagt ggcatgatct tggctctctg 60
 caatctccgc ctctggatt caagcaattc tctgcctca gcctcccaag tagctgggat 120
 tacaggcacg caccaccaca tccagctaatt tttgtatttt tagtagagat ggggtttctc 180
 catgttggtc aggttggctt caaactcctg actttgtgat ctgcccgcct cggcctccca 240
 aagtgctgga attacagatg tgagccactg ggcccagccc agaacttggg tttatccacc 300
 tctggtgaaa catgagctca cttggtgctc tctggcctct ttattcccat ctcttaggc 360
 tgaccctgac aagcgccagg gccaggcttg gaccaagcag tcaactgagt cagcctgccc 420
 tgggaaccag gcaggggaag gagcttacgg acggctangc tcaggaaaag ttagaaagaa 480
 cccgataaag gcaaaattcc tggccgaaag gcacttaacn taaggatgga acctcttggt 540
 gccttgaagg gccgtaancc tgtttgnctg ggggatgact n 581

<210> 8163

<211> 591

<212> DNA

<213> Homo sapiens

<400> 8163

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aaataaatta aatttaattc aatagaaaca cacacattgt tactagcata agtaacaaaa 60
acttccaatg ttttaacaaag taagtaaaat gtgataagca tgtacagtct aagaattttc 120
tacatgcatt cttgttaaac tactactttt gctttgttca gactttataa tacctttctc 180
caaacagctt atccttgatt tttttaaaaa ttcaaatacc cacaagtttc agtgaataga 240
ttgtgaaata aagactatit ctaaaaatac cttcatgttc acattctgac agagtaaaca 300
ataagaattg agaatcaaga ggctatgtgg ttcaaaaac ctaaaaagaa aactgcagg 360
acagatcttt tatgagtatg atcttttgnt ttgntttctt acagttttgg gtaaagcaaa 420
atcaaaaggg cacactaaga gtaaaacaca gaaataatcc tttaaaacaa ttttaagtta 480
agcngggact caactttacc atgggctctg gtaaacact ttggtcattc taccncaaat 540
cttcaaatg gaaataggtt taataggatt ttaaaaaggt nggctgatgg n 591

```

<210> 8164

<211> 502

<212> DNA

<213> Homo sapiens

<400> 8164

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agcaaataaa cattttatit ccacagcacg ctttcctct tcccaaagaa catgagttca 60
cctcagccat caaagcagag ggcgaaagct gcaagtgaca aggcaagagg ctccatagaaa 120
aatagattat acccaaggct ctccctctgg ggacccaaac ccgtccccag gctccccctc 180
agagcttgcc aaatggagtg aaaggcatgg aaaggggctg ggagaaaagc cagctccact 240
gaacaaaggg gagaggagcc tggcagtga cagacctggg aggggtgtgg ggtgggatga 300
gctttgctcc ttggttgagt gctggaaaag ggaaggggga agaaataatt tatgttgatg 360
taattaatgt aatgatgatg taatggtgcg tggtttcaat catggcgacc attccagatc 420
tctctcaagt gaactaaatt ctggcccggc ctgttgagca gacatagtag gtgaaanaaa 480
gcttaacttg gaagcccnga ag 502

```

<210> 8165

<211> 503

<212> DNA

<213> Homo sapiens

<400> 8165

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agctagtatc ttttattgtc agaacttctg tgagccaaca aacagttttg catggttgta 60
cacaaaggga caaggcaaat ttcttttttc gtgtgggtag acttagttgg cccaagtcct 120
taaaactttt ccatataaaa ataaaaagtc caagaccaga ttatttttct tctggtcata 180
aatgctgatt tatttacagg tgccttggtc agaccaccat tataaacttg ggataaaata 240
tgtgtgtatt aaagcctcag catttaatgt cagggtcctt tgaagattca ctcaagtgtt 300
aagacgtttc tggaatgcag cgtctctccc ccatagtcaa catggttatt atatctgtaa 360
tctatccaga atgatagaag ctaaccttcc aagtaacact ttgtttttaa cttaaattctt 420
ttagacatga aagactccaa aatgacttca ttcttgggtc aaaaccagcc tgggagccag 480
ctgntgaana atggnttata aat 503

```

<210> 8166

<211> 500

<212> DNA

<213> Homo sapiens

<400> 8166

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gcatgtaact tttttattga gggcacaaca aggcatgtga acttgcctgg acttgaggca 60
gtcagtttag taagctgaac gttaatacag ttaaggatta agtgcaaaca atatacattc 120
acagcttgac tagcgaggct acatcacaat ttataaagtg ccagattagt gctaattgtc 180
attcagcttg atttttcacc tcaggaagga aaacaaaaaa gtaaggacct cctccctcta 240
ggaacaaaaa cattttccta aaccaatcag tcatgagggc aaagactact tttccttcaa 300
tcccactaat tagaacacca tccttttatt gncaatactg tactgacttt caatcttgat 360
aaagaagata gcctgaaaac gtagaatatt tccagctact tccataaatt gctcccctgt 420

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gcagacgtaa ccatatctgg tctccctgga aganctgaag aattgcatga atgctagcag 480
tttcatggnc tngagcccca 500

<210> 8167

<211> 500

<212> DNA

<213> Homo sapiens

<400> 8167

gagagttgaa acaaagaaac tttaatgttc tggctgacta cactatgttg ataggctcac 60
aattactgca tctatactga aaatacatag actcttttcc ttatcatgat tccctaaaca 120
atacaataga acaactatit gcatagcttt tataatgcat gaggtatit aagtaatcta 180
gacataattg agactataca agaggatgtg ggtaagttac atacaaatat gtcattttat 240
aaaagggact tgacatggct cacagagtgc tggaaccaat acccagcagg tatcaagcga 300
tgactgtact ggaaagaaac tgaaactact taaggcttta ccaagtgtt acattcacag 360
ggtctatctc caatgtgttt cgtacaagta tctgaaatga aataaaatta ataatgtct 420
tcccacattc catacattta gagagaatgc aagtgagtct ttttatgtct atgcaaggaa 480
ctgagagaac caatgctttt 500

<210> 8168

<211> 486

<212> DNA

<213> Homo sapiens

<400> 8168

cccagccctc aggccacttt attgctcaan agtggctcagt ctgggggtatc tgcatgcctg 60
aactccatga tgatgtcncc tgtgtcgggg tgaaactcca ctgcatagct gacagtcctg 120
gggccacca gcagtgtctt gggatctggg gcagggtga anaagtagac ggcctgcttg 180
cagtgggggt tccagcagca gccccctcg gggctctgcag gctccaggag gccagtgtg 240

agcgtgcact ccggggtcag gtggtactcc atccatagca ccgctgcgtg gctntgcccg 300
 ggccttctga gctccacggt gccctcggca cacaggggct gcaggggcac cggctgctgg 360
 aagtcaaagg tcaggatctg ccagggtctg gaaaggctgc ggcatgggta ctcccacanc 420
 ggggtggggct taacttcctt gctntcctga aatncaaggc acccttaaac atgtcgccat 480
 ganggg 486

<210> 8169

<211> 502

<212> DNA

<213> Homo sapiens

<400> 8169

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 tagaggccaa gaggtgccg gaagggaana acggggcctg ggaaggccgt tgtgaggaat 120
 gagctgggccc taaagaggcc actggcaggc aggagctgga cctgctgaag tggccgaaag 180
 gcaggagctt tggactgggg aggccacagt gaggcgagag ctagctgggc gtggagagtc 240
 cgctgtgagg ccgaggccga ggccgggccc gtgcaggcct ttgagaggca ggagctgagt 300
 ccaaagacgt tgttgggagg ccaaagtcgg gcctggagac gcagccggga ggaagagctg 360
 ggctgggccc gaaagaggcc actgggaggc aggaggagct gggcctggan aggctgactc 420
 gaggaacttt tgcacccgga aaagcccga aaaggccgga acttggcctt ggggaaccca 480
 cttgaaaacn acttgggcct tn 502

<210> 8170

<211> 496

<212> DNA

<213> Homo sapiens

<400> 8170

ccattgcacc ttatttgggt tattctgttc actgttcaga attttcatac agtctttcta 60

gaatcacaca gaggctactg agtagctcct tccccctgac actgctttat ttctaaccag 120
 cctcctctca tcccttatcc ttagtgtatg atattctgct agtgtccagg gaggccccag 180
 ggttgTTTTT acaggggagg gagaaggggtg tgcggtggtg tgcctgcagc tttctctcct 240
 ctccacctcc tttcttggtc agcagcctcc ggacccccaa gggctaagga atcagacaca 300
 ttgggtttgg atcttgactc cactagaagc catgtgatct caggacatt tcttgacctc 360
 tctgagccct ttttcttct tctacaatgt ggagaaaaga ctccctctct cacaggggtt 420
 actacaagaa ttcaatgact ccaagtatcc aaagcatctg gcacagtgcc tgggcacaca 480
 gtacgcccta catgcc 496

<210> 8171

<211> 494

<212> DNA

<213> Homo sapiens

<400> 8171

aaaactcaag ttttattgca atacatcttg cattacattc taataataaa cggttgaagt 60
 ataaattttg aaattagtta ccaaaaatca ttactaaac agtagtttta ctaaaaatac 120
 taggattggg aaaaataaac actaatagaa agtactccaa aatgttaaca acgtttctat 180
 gggcattggg attgggggtg gtttatactt tctcattttc tgtattacca acacttacia 240
 ttcacaatca ggagaaaaac ctattatatg atacttaaaa cattaaatct ctgattgtca 300
 cctataggaa aaggcaactc actatccatt tgaaagatcc ctttagactt ctgatcgacc 360
 tcactcgata actgcacaac ctctggacac aaagaggccg aattgtcccc ccaatttcac 420
 ctcccctatt acccacaaca gcagcgatat gggtttgggc tcttngtcc ccacccaaat 480
 ctncnatagt aatc 494

<210> 8172

<211> 495

<212> DNA

<213> Homo sapiens

<400> 8172

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aacttttagtg gtgggtatatt cacaacagtt acacctggca aaggcttata aaccaacttc 60
ccagaagagt tatttaaaaa aaaaagagag agagagaagg agaaagaact caagcactgg 120
ccatattctc tgttaaacac acacacacac acacacacac acacacacaa acacacacac 180
acacccccaaa caacaaaaaat cagaaacaga agaaaattaa aaaaccaccc tgccactaaa 240
ttgagtaatt tccagaatgc agtatcccta tgttctacag caggtcagga agatggctat 300
aaacagagtc caggaaggtc tggctggctt cctggctctt gactccaata atttcgaata 360
gccggtctag tttgtcctca gcctggggaa tctcttcaat caccgcagc tcctcaggat 420
ttagaaagtg gagcatgtca tcaaagatag gctgcaagtc acaggggtca agcgtacctg 480
ncgnacactg ggttc 495
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<210> 8173

<211> 496

<212> DNA

<213> Homo sapiens

<400> 8173

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gacggtgtca aactctgctt tattggaata gagaatacag gcagcaggaa tcacgcttgg 60
tgctggcagc tccaggctcc ctgccccac gggctctccc acttgtcttg atcaggggag 120
acctccactt tgaagaacaa tatgggggtgg gagcttccaa tgtgcattct gctaccagcc 180
tcaggattag cagcaagatg ccaacagcaa cagcaacagc aacagcaaca gcaacaaagg 240
actggactcg acacttcagg aaaggacgtg tagaagagaa agtcagaccc acagtgtcac 300
gtgttaacaa cgggtcccaca acagcagaca cgacactggg gtgcatggct gtaccacctg 360
tgggaggctg acagcacacc gacagccctg aggggcccgg cattctcact cccaacatga 420
gaaagaatta acaccacaca cacacatgtt cacattctct gcgaggacag tcaaattaag 480
gnccccaagg gagggga 496
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<210> 8174

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8174

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actaatcaaa tctattgctt ttattgtttt taagtaagtg gtggtatatg tcattctttt   60
aatgttttct ttgggaaga tcttatagaa aatggcaccg tgaaactttc agctctatgt  120
cccaaaaatt atctttcaac aatctgatga agtttcttaa agaaactctt aaaaatgaag  180
ataatatacc tggcctaaat caaaacaatc tgaaaaatgg atgtgtccca gtggaaagac  240
tcaagtcttt tcaagtttat cagaaatgcc actatacacc actgtactat aagtcgagga  300
ggatggatat ccaaaggatg catttggtga cggttcctga tggctcaggg tatatcctat  360
aatcactggt tactatgcat catttcttgt agataaatgg tattcatgtg ataagctgcc  420
atccaacttg gatgtctctg agcattccaa taatatgaat gagaaacggc agcataatat  480
tcttgccatg cctgtanta agctctccag nctcccatta atcccgatag gnttaanaaa  540
acctcagacc gntttncctn tgccggcatt ccca                                574

```

<210> 8175

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8175

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gaagatggct gacctcaaat cttatatacct aaatatatac gatatccccc aagttaatat   60
acagaaaaac atgattctaa aataaataca caggcttttt aaaaaaaact taattagggc  120
ctgtctagtg atgccctggg ccggtgctgc actgcttttag ggaagcccct ggctggatct  180
atgtttccta tagcacctct aggcactggg aaggagcctg gaggagagct ctggcttcta  240
atgaccacag tggccccagc tgaaaaattt ttttagaggc tccccaaaga agtctcatcc  300
agaccttaag ggaaataaaa tgaatgcatg aaataaataa ataatttaac cacaactaaa  360
tttcatgttc ttggtgtaa ttcaaggatg tctagaaaca aaataatctg attgcattat  420

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acagtccatg atgattcaat tgcccaaata gccaggaatt gaagatttat ctgctccttt 480
aacaataagg actgaccctt actggaatca tttttttaaa ttcaatatta ttnaaatctt 540
gntgccaatc aaatccgggg tgataaggca ttaanttaag ggccncctt 589

<210> 8176

<211> 561

<212> DNA

<213> Homo sapiens

<400> 8176

gatatttaaa aataaacttt attaaagcag ttaaacttag cattaataa cactctttta 60
atggtacacc tatgaagcaa gagttaata taaaccagc ctaatcctgt acacttgtga 120
ttaattgtga caatcttaag ttgctcactt ctttcccatt taccaattca gagaaagccc 180
gtttcctggt ttctcctcac cactttgcct tggcatcaca ccaaccctgc ctggggcttc 240
agctgcagat cctccccagc ccctcctccc agctgggctg actccagtcc cagccccagt 300
ctccaccaac tgagcagcgt acgcagggtt gtgcctggct tccagcatct accaccctt 360
cagagcaact tccaacatgg gacaggagag gaagctcgca ttgcttggtc tgaacagatt 420
taaggagggt ttatcacaag gacctgaaaa cttcctaagc atgctttctn cttgccagct 480
gaagaagggc aatggtggga accgggcaag gggggttgca agggccgnaa gggctttttna 540
attangggnt tnaattcnca a 561

<210> 8177

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8177

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tcaaattata tcatatata gattcaattt aaaaatcctt agccctctta tatcatatta 120

tctagattat aatagtaaaa aatcaagtta cattcatatg aaactttcat aaaaagaaat 180
 caaatccagt tttatgaaat tttatagtac aattactttc tagtgggtct tttcttaggt 240
 cacagtatTTT ataattccat ttacatcttt ataattttta aaattagaaa aaaaaaggat 300
 gtcaatagaa atctaaattt tcacttgcaa aactcccttc agtttccagg ccagtaacac 360
 atgggtgatgt cgacttgtcc tccagacatg gacggctacc aaagaccccc agttcacgga 420
 gcatgcaggc ctctactcat taggaacgct ttttgggttt ggctcacgtt tcaagaaatt 480
 gtggagcatg tccatgccgt caaagatccc cangttcaag gatangtten ggatttcant 540
 tccaaccttn ggatcattaa nccttctttt ttaaactnact gggaacc 588

<210> 8178

<211> 528

<212> DNA

<213> Homo sapiens

<400> 8178

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 gagtggggac cctgcatgct gccccctccc cgccccggg gtcttctggc aggactgggg 120
 aagggagcct ctcaggggggt ggcggtccac gccagtagc acctgggagc tgtggggggcc 180
 gaggcagtcc gaagggtgtg ggtagctctg agctcatgta caggccggt accccgagcg 240
 ccttgccggcg ggagccaggg cccatcagta atagtgcagc cgccccaggg tgcccggtggc 300
 cgtggggctg ggccccagcg tgcctgtgcc cagcaggctc ggctgcccgg tgcgccagat 360
 ctcccgcagg atccgttcgc gctcctccag ccgctgcgcc cgctccagct cctccgccga 420
 cgtgaagacc ttgacgttga ggggcccgtc cggcttttgc ggacagttcg ggccccgnaa 480
 cgtgtcntcg gggccaaccn agtaaccggg gcttcttgnc cttgnngn 528

<210> 8179

<211> 499

<212> DNA

<213> Homo sapiens

<400> 8179

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ctttgaattt ccatgtgcat ttatttggtt attgactctt ttcccaggag gtcagctcca 60
ccaggatagg tctttgttgg ttctttcacc gctgtacctg tgtacaggac agagcctggc 120
acacaccagg tgccagtga tatttgctga aggaagtcac aaatagggat cagccatcat 180
tactttatca tcatgatcaa caggaaagac cactgtcctc acccaatccc ctccaaaagg 240
ctttggagca gatgtcaaca ttaattcact gtctcagggtg acagctctca tcctgaggcc 300
agggttgggg ggagctggga atggggcnag agtggggcct cacgtcccag gctccttgat 360
acccccacc ccaccagcc aggaaacacc acgaggcagc caaggttaag tagactcttg 420
ctgctttgtt ataaatata tatgtacatc caaaacatga cattaaaata ttactccgtg 480
tacagaaaag atnnnnnnn                                     499

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<210> 8180

<211> 595

<212> DNA

<213> Homo sapiens

<400> 8180

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gctttgtcat ttgctattta atgttcaaac attgaaagta attgatttct tccgagacac 60
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actgtgtggc tgatgcgtgg gatctccctt tgcttccttc ccgtgttgga gcccattttc 180
tagatccttc acttctctgt tcttggtttg ctctcgtcatt tgggtggaata cattcccagc 240
agctgcctga gtggggaagc aggggaaata tccctacaca ggcagttttt cgaggatatga 300
ctgaaaaatg cctttattta gccttacact tgattgactg tttggctaaa tataggattt 360
tgtgtttaaa ataattttcc atcagctttt ggaagacact acttcactgt attgtggtat 420
tcaattgttg ctactgaaaa tctcaatacc atctgattcc tatttcttg cattggaacc 480
taattttct cctcctggaa cattttnaaa atggctcttt tttcccantg ttttgaaaaa 540
aaaacttttt atttngaaat ccttagtttt gnaanattcn tatattcncc ctaga 595

```

<210> 8181

<211> 561

<212> DNA

<213> Homo sapiens

<400> 8181

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caatagtcca gaactgttct tttttctatt ttagggctga ggggtttcta tttagtctac   60
atgtgtcagt ctgagcaacg tgagaagtcc cctcctgaag atttcctttt gcacggctgg   120
ctcagcactg cgggtagctc ggcatataca aaagcgaaac ggtggtcaga ccttcacagg   180
gtccccacct cacgacgaca ctggtctacg tactccagac aggcctcagt tcttcttgct   240
gtccttctga ggctcacttt ttgtgggtccc taggttggtc cacacctctg tgtacattaa   300
ggccecaatg aagacaaaca aggtgcccag ccagtgccac aggggtgaagg ggttctggaa   360
gtacaagatg gaaaagatga ggctcacaaa ttgcgtagg gtcacgacga gcgtgacggg   420
gagggaggcg cattctgtgg tgaggataaa cacaccccg atgcacactt ctgagtgatg   480
atgtcatgan gaggtngaac cccttaatgg caagggcact tccatgaccg gaatttntnt   540
acctnacctt ttgaannaaa c                                         561

```

<210> 8182

<211> 515

<212> DNA

<213> Homo sapiens

<400> 8182

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actgtgtaaa gctgcctttg caagcacttc acatgattca ctgaacagag cagacagaaa   60
cccctgccct tcttgggggc ttccatccta gacaagtgcc agcggcccca gttgatgcc   120
cgggcaggca atgtgcatag ccatggcacg tgccatccct gtggattcgg atgcctcctc   180
ccctgctggg gtgaggcagc caaccagggg ccaactgaaa aaatgctgga ctctcggtca   240
aggacagggc tgggagagtg ccagtctcca caaactgtgg atccactaga gggttcaggc   300
ctggggcatc ctctgcaaga ggatcccacg agagtccatt cccaccaca ggcctccgct   360

```

gctcactgct gtgccttgat cggcctggac gagcccgccc acacctccat catacccagt 420
 gtgaanaggg gctggggacc caccatttct gagaacagca tncctgggaa aaccactgt 480
 gaatgcncaa nangnacaat ccttaggccn agtga 515

<210> 8183

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8183

cctcattctg gtttttaatg gtcaaggtga caacagtgt cagtttttcc agaccatata 60
 gtaggttcca taatctccac ctgctggaga aaacaccgtg acagatgcca ttgccccagc 120
 aggccactgc cgggtgtggga actttgggat caaaagcacc aagccaagtc ccttgetcag 180
 gatgggtcctt gggtgaaacc acaagccctt ntgcagttct aggtggatgt agtggttggt 240
 cttggctcat tgcaggggtg aagcaggaaa gagaaagaga ctggtgaggc ctgcttgga 300
 agaggattga ggcacattac gattccaaac caggagatcc tgagtcagca ctgattctgt 360
 ctctggtttg ttttaatacgg gaaagggttc catccaagag cccaataggc ctcctctccc 420
 aaacctgcat agcaatcaaa cttatagggg tgggtggangg tctttaccag gctaggacta 480
 ctgcctatgt ttctgcaagt cacaagttaa ccagggtcaaa agaacaatgt gaaacanaac 540
 ctggttaagc aaagccnaat tgtgaccttt ctttct 577

<210> 8184

<211> 550

<212> DNA

<213> Homo sapiens.

<400> 8184

ccagttttan catgcaactt tattaacaac atgtaaataa aatctcaaaa gaatncncat 60
 ntcaatntaa agcncagaag tntagcttac tcaggatgaa tagattcatt atcaggtcac 120

gttgcaaaaa tncataaaaat atctcaatth atatnctata tagcncaata aaaatcagcn 180
 catgttcagg atctcaanat taatnggtat ccataaaaatn gcctccctca atcaacatgg 240
 aaaacataag tattgaatth ataattncaa tatgcattgg tttcatattg caactccaaa 300
 aaactgtttg aggcttttatg anaacagagg ggtnttcana gttttagtat taatcgtatg 360
 actttatctc tcacttcggg atcactgngc tctgctaagt cttggagttt ctgaccaaac 420
 tgttttgctt cctggaatat tgaaataagc tcaaatttag ngaacttttc cttggnaaat 480
 agctttgcct ttgttttgaa ctgaaaatta tattctcaaa ttttcaaat ttaaaaaatt 540
 ggnctttgcc 550

<210> 8185

<211> 579

<212> DNA

<213> Homo sapiens

<400> 8185

ggagtcttcc catataaggc acaaaagggt ctttttgttt tgctttgttt taaagcttta 60
 ataaattctt ggaagattct ggattgcttg aaattattht tagattatgc taaacatgga 120
 gctgcattta cacaaaagtt cttaaaaatt gtcccaaaag ctaatttttc caagtggaaat 180
 aactttagaa ttgaacattt ataagattcg ctttatgttt taaggagctc taaaatctac 240
 atcataatct aagaagtctt aattttgaac tttaattcac aacgatcttc tacacgtgac 300
 attatctcac gtgtatcctg taggctctct gttacggtta gctcactaga aagtgaccta 360
 agtgagctta gtgtttaatg cagcattact gtgaatttcc tttagaaact cacttttatt 420
 tgtctccagt ctactttttc atctatthgn ttttggtttt ttgnttttta attttgagac 480
 agagtctcat tctgtcggcc aagctggaat gcaatggaat gatctggctc attggnacct 540
 ctatctccng ggtaacaat ctttgcctan nccttgcat 579

<210> 8186

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8186

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aaatctttat ttaaaagtcc atgctaataa tgtgtttaca tttttacagt tacattatga 60
tagaaactgt tggatttttt aaatatctaa aacaatggcc cactgaagaa aggaacaatt 120
aactctttta ttaattcctt aggataaata cccagaaatt taacagctag ggcagacttc 180
taatacaata ccgaaagtcc ttccaaaaac caagtgggtg ccaacttatg tcccttagca 240
ttataacatt cttgagccaa tagtgtaaaa atacgctgac aattttatag gcaaacatta 300
ctcaaggtat cttactttcc acttattact aaagtaatta acccctaaat agatgctcct 360
caacagtggg actacatcct ggtaaacctt tcataagttg aaactatcaa gttgaaatgc 420
atttagtacc cggataaacc tatcataaag ttgaaaattt gtaaattgaa cccagtgtaa 480
atcagaggcc atcttacttc atactcatga agcactatag ngggatattt ttcacttacg 540
agaaaacctt agcttggtgn aaaactggcc taat 574

```

<210> 8187

<211> 575

<212> DNA

<213> Homo sapiens

<400> 8187

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gttttttttag cgggtgaaca aattttaatt caaaatagac actctgaaaa caataggtaa 60
aaaaaaaaaa atgttcaaca agctctcttt gaatttacia cagagtacac caacaatcat 120
aaaccagttt cacaactgcc tcaaatatga acattatagc aattacatgc aagtattata 180
ttttttaaaa tccacatagt aacattatgt ttctcagagg ctgtcacatc ctccaaatat 240
ttctacctaa agatagagtg aaggggttcc tctgctgtgt accaccagaa atatgactta 300
ccatctaaac tggctgggtc ccatgactgg ttctgggtgct ttaagtttta atatcggtgtg 360
gggaaaaaaaa cgaggtttaa catccacagg acagtgcga caatggagat tctttaacaa 420
tatgccatcc catcgacccg gacacagctt ccagcctaaa ccagctagag aaaagcccgt 480
ttctccacta aacatgacct tcagaaaatg tggtaaaga cttactgtcc aacctggag 540

```

actgagatct tantctggaa ctttgccatg tcccc

575

<210> 8188

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8188

gcttagaaaa tgctgtgatt ttattcatag tatatacacc acaaaacaga cactttccat 60
 tattttgatt acttcaaaat ttaaaatctg cttgtttttc aattgatttt tticatgaca 120
 gatgctgagt tctgacccat tttttcccc tgacagtatc aataggctgc ccgactacat 180
 gatacaattg ttttttagcat ttaaatttaa gactatggct cagtgtttga aaaataaata 240
 agttaacaaa agagaaacat tattaggagg aaaatgaaaa catattcacc acatgataaa 300
 aaaaatcact ccttaaaaaat caataagtgg tgtgagcatt atttcactta acctacttgg 360
 aagcactata ataccaatat acaataaaaa cagaacccat aggtagcctg gaatgatgca 420
 gtggccatca ctaattaggg gctagttgac aacataaata caaataaatg aaattcaaatt 480
 taaaaaaaac ttgnttttag ctttaattggt gggcanaatg tatggcgggg gctggntgct 540
 ggcaanccgt ttaactttgc tcgcttgntt gntcgaa 577

<210> 8189

<211> 606

<212> DNA

<213> Homo sapiens

<400> 8189

cttttttttt ttacacttgg ggttttaggt atttatattac aaagttctta ctaatacaat 60
 tgcttttaaa atgtagnnna agagtcattt actactctca gaagtggcac atacatggca 120
 tagaaaacaa tctatagtca gttactatt aaaacagaaa cttgaaattt aagtgacaaa 180
 catttgtagc actccctaaa gaaataggaa ataaaaatgc atttatccat atgaacttga 240

ttattctgaa ttactgacta taaaaaggct attgtgaaag atatcacact ttgaaacagc 300
 aaatgaattt tcaattttac atttaattat aagaccacaa taaaaagttg aacatgcgca 360
 tatctatgca tticacagaa gattagtaaa actgatggca acttcagaat tatttcatga 420
 agggatcaaaa cagtctttac cacaattttc ccatggncctt atccttcaaa ataaaaattc 480
 nacacactat caacttaaatt caagatttgc tagtggatna aattccatta atttaccgnc 540
 tntnttgga cangctccaa caatntgggtt ttgcaaaaat ccatggttct naaacttcgg 600
 gcctat 606

<210> 8190

<211> 566

<212> DNA

<213> Homo sapiens

<400> 8190

gattcacaac acaattcagc tatatatitta attttaaaga cttcatgaaa ttgtgggagg 60
 ggtaaggggg aaaaaagaaa gagaaaggaa ggaccccaac aacagtaaga ctccctacca 120
 tctacatctc atctgtgttt ctcttattat aacccatgaa atatctctac ctgcagtgtc 180
 tattacaaat acaaatacca tcctcactca ttttcaacag ctacctcact aattcttaca 240
 cacttgacaa ctttagaact ttgtccaatt attatttggc caatgcttga aaatgattta 300
 aaggcataac cccaagtctt agaacagctt agagcaggag tataaatatt cagattccaa 360
 agacaaggac tactaccac atcaacctgc ctgtgacacc tcacaactaa gaaaccagtt 420
 tttagtagat caaagatgaa aaggtgaaac gtacagctca caaatcaaat atctgggcac 480
 tagaaggaat aggtgtgggt ggaaaaataa ccttttngna tttctcagc atatttttna 540
 atggncgtac cacanttntt cncctc 566

<210> 8191

<211> 597

<212> DNA

<213> Homo sapiens

<400> 8191

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cacactgtca caatttattg aaattttata aaaactcagg ccaagtggaa gaataaggta 60
caactcaaga gtacaaagac aactccgttt ccgttcagta cttttctcct cagcactggg 120
ggtaagaaag ccccttgctc tctagtagcc aggcagcatg gacttacagt cttaaaatga 180
ggctttatgt atttcaggct ggaggcagg tgccttttct cctgaggaat ctcaggcagg 240
gtaaaagtta cttaccactc agtacctctg tgccagaaga aaagctcaat ttattcaatc 300
cttagaaaag ttactatcgt cccctgggtc gacactaagg tgtcttgata aggtccagag 360
acaaccacat agtccttatt ctaattcgta gtgaaaaggc tgcaggcata tgggtgctcct 420
acgatgggcc tgaccctttc ctaagcacat ctcatttcca catcctttgc cttctctttc 480
cccaacattt ncagccagca ttgaaccaa tttctngna attgagaagg ggaaacngtt 540
ttntgnaccc cgacttcctt taaaatggac cggggnccaa cccaattaat tagagaa 597

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<210> 8192

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8192

```

aaaagtaatt acaaattaag aatttattta taagttttca tctttttaga aataaaaagg 60
cttaaaaaac aaaatgggtg caaaaatggg tagttttggt atatccta attgcttaggtg 120
tgctctgtaa attccaaata agtaaaataa tataaaaata cattttcata tctttataga 180
acaaaaacaa aacattaaat gcttttggat tttctttact cctcccacag atgagttcac 240
aaatacaaaa actgggtgtac atttatactc aagtacaaat ctccaacagc caagtaatta 300
tagtttcttc tgttatgtgc aaagtagatt atttcatatt tacttggtat ggaaagcaga 360
gtacaggctc aatggacaat aatcattaaa cacagattat gttaagaaa atgctgttgt 420
aaaaatgtca atagtacata caattttggg aattatgcac ttcttttaaa gtaaatacag 480
cttttagata taaatctttc aaanggttc tttgaaaanc tgtgangnga ctatttcaga 540
attgatgaac agtaatttgg cngnaacttn t 571

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<210> 8193

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8193

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aaggntttaa acgtttctct ttgaaaagat ggtatcttac agtacatata aaaatactct   60
gaaaatacat acgacttcat ttacaaaaca ctgaatcaac atattacaag aattacatgg  120
ttatggattt taataaactg agcatgcatt catgaaactt aaaaaatatt aagaaatgca  180
ttgaaaaaag cagcgtaaaa aaagacaact catatagtta aataaaaatt acaaagggtcc  240
tgagccaatt aatggttggt aacaatgtca ttcaaaatgc ctttaggttt caataaaatc  300
cactgcttat ttctgcatgc ctagtccgtg aagaaactat ttgaagttgt ggggtaaata  360
atgatcagga attatcatgc caagttaatt ttacacctca aaaatacaag tgtgccatac  420
ttaaagggtta tcttattgnt gatgctggaa tgagttgctc ctcagtaaaa aatccagtca  480
actaacaaga atggcatgaa ataggatatg tacaattttc cnttcatata ccggccttan  540
natccngggt aattttgaat tttaaaaaaa agccttn                               577

```

<210> 8194

<211> 602

<212> DNA

<213> Homo sapiens

<400> 8194

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ggcttaaaca acagaaattt atttgctcat aatttttgag gctggaagtc caggatcaaa   60
gtgtagataa ggatgatttc ctctataatg agccttaaaa gaaggatctc ctccaggaat  120
ctctctttgc cttgaaggta accatttccg gtcacttcac ataaaattct gtgcctgcta  180
ccctgggtatc tctttcactt cttataagga aaccagtcac attgaatgag ggccccattc  240
taactgcctc attttaaaat cacctcttta aaaaaaccac atctctaaat accaccatta  300

```

tcttgaggtc ccagggatga aagccttaat gttaatgagt ggatgggaca tgtgacataa 360
 tctaaatcag tgggtccccta actttttggc accaggggacc agtttcgtgg aagacatttt 420
 tcccacggac tggagttggg gattaaactg gtccagttca gatcatcagg cattagatct 480
 cataaggagt gtgcaaccta aatcccttgc atgtgcngtt cacaataaag tcatgcctcc 540
 attgagaatc taatggccct ggtgaactga canaaagttg acctcagccn taatggttgc 600
 tc 602

<210> 8195

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8195

agatcacaaa aactttaata gtcaaagctt tgtaatttat aatgttagaa tttctcaaca 60
 tactgtcttg attacaagtt ctgatggcca ggcattggtg ctcacgcctg taattccagc 120
 acttttggag gccgaggcgg gcagatcacc tgaggtcagg agctcgagac cagcctggcc 180
 aacatgatga aaccccatct ctactaaaaa tacaataaaa tagccaggcg tgggtggcagg 240
 tgcctgtaat cccagctact taggagtctg aggcaggaga atcgcttgaa cctgggaggc 300
 ggaggttgcg gtgagccaag atcgcgctat tgcactccag cctgggcaac aagagcaaaa 360
 ctccatctca aaaaaaaaaa aaaaaaaaaa gtcctgacgg nacctcagcc tccctcaaata 420
 tcccttcccg tcctgcagaa gcaacccttc aagacttctn ccttactaaa aagtcactct 480
 tcttatagnc ttattaataa aacatggtat aattgctaaa tgtacacatt accccttaac 540
 cccttangna cgccgattct 560

<210> 8196

<211> 566

<212> DNA

<213> Homo sapiens

<400> 8196

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ggcttgtggg attttcaaga tgttttattg actatctaata ttgaatctac ttacaaagag 60
aagaaaaatg tctagtatgt aaagcaatga atgaaaataa atgtttatcc taagtcatta 120
ttgagtacaa atccacagct taacaatgtg tttttaacag caggagagca tgcaactgct 180
ctaacacaca gggtcagaaa taaaaggtaa aagtacattt gttttgtaac tgtaaatata 240
caaatataaa atttaccata tctaccctgt agtgtggcac tgcttaactg ccaaatatac 300
agtcattcaa aaaccttaag gaaacattga aaatgtctca ggctacttta ctgaacatta 360
acgaatattg tgttcttgag ctattagagc taaaagtatt atttttaag ttatatgagc 420
aagggaataa taaaagtatc atttcacgtg tcttttaatc ccatagacng ntttttggtg 480
aanggattaa ttatgttaaa aaggaaactg atttgccaaa tagaaaccag tttcagaacc 540
caagtggcct cttggtanaa tgtcaa 566

```

<210> 8197

<211> 568

<212> DNA

<213> Homo sapiens

<400> 8197

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ggttacatat actgttttta tttgggtttg ttgaatgaga ataaaaacac cccagtttct 60
tctgcaggtc gagcccttct ctataacggt cattacaaac aacctgaag tggctggaat 120
atagtcagca aggggcccac atgaacagct catctggaat ctttgcaagt acgtatttat 180
gtccttttgt gccttgaca gtaaggcact gttaatgacg taacagaata gaggaaatgc 240
ccacagcaaa tagttctagt gacaatttac tagacaagtt acagtttaat aatggtggtg 300
gtgattgttt ctttcatttt attattatta tttttttaca ataagggtgt agcctttata 360
ctccacacac acaaaataaa acaagtgcct attacgaaaa gagtccctgc cccaccccc 420
tagaacatcc tgaacatagc aattcaacag aacagaaaaa tcaagacgtt tggatttcna 480
aaatttcaat taaaaacca aaagtntgta atgcaacagc tggccaactt tcaactttta 540
aataggcncc atttaaccaa aaaaccct 568

```

<210> 8198

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8198

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gaatatcagc tcttttgttg tttatttgta acaaagtga tatttggttc ctgtcagttt   60
gattccttca tttttgtctc tcattttggt cgacatttaa gtacagcata gggatgttat   120
ttaatttaca ttctcacact ctaaaagaaa tactattctg aattaagtag aaaaagaata   180
agcaagtgtg gttactctgg taccatttaa tcacattttc catatttttc aaattttata   240
cgataatgaa attccctctg ttcaacacaa aagaaacact cattctggaa agtgtggcca   300
tttgaggcac aaacaggtgc tgtcacattg gggcagtctg cattgtaatc aggggccagt   360
gggatataca ttttacatcg gggcttaggc cacctagtga agtcacgttt attgaaaatt   420
cctgagaaag ccacatgtgt caaagtagag cataccagga aaaatataat cttgtggggg   480
aaangcagcc atttgatctc atatnagact cttctttgaa aaggctggat gaagggtggct   540
tgaaaatggc cngctcttgn cn                                              562

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<210> 8199

<211> 557

<212> DNA

<213> Homo sapiens

<400> 8199

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ggggctgtga ctgtatttac ttcatcttg aatcccgct cccgtggct gggggctgac   60
acatccctgg gcaccactgt gacttcctgt gggtccttc cttctgtcc ctgactctgt   120
agacccccca caggaagggt cctaggtagg gggaggttcc tcctcccttg aaaccctggg   180
ccactctgtc aaggcaaagc ctctgggccc agcaccttgt aaaggctttg atgagaggag   240
ctctggcttt tgctcagggc ctttggcacc ccaccctcca gccccagga gtgcaggcgc   300
tcaaagcctg tggttaggct gcccgaagca cgtgccgcag ttcttctgga gtgggagcag   360

```

ggggacagag ctttgggtag aggagggtca cctgcaaagc tggaatgcca ggggagtggg 420
 cgggtgccttc agctcctggg ggccaagggtg tctcatacct catgggcctg aacctgggca 480
 agggctctgga atgcacataa cccccaagca gggaaggggc aatgacagga caaancnctc 540
 atctgtccaa aactgnn 557

<210> 8200

<211> 556

<212> DNA

<213> Homo sapiens

<400> 8200

gcttgatgtc tggaacagtt accgaaacta gacctgtatc gcgcattctt actagtgtt 60
 gggcctcaaa gcagtgtctc tcacctaact gcacaaagaa atgctattag gtccaattat 120
 gagataagct gaattataaa tacacaattt tcagaacgac aggcacttaa agctcattaa 180
 gtaaaatata aaaatagatt atattaataa gaaatattta gtgttcatca aattgtaaat 240
 ctaggctttt gccatttttt aaaaaggata ctggaaactg aaaagagatg acattcatat 300
 gaacaatgca tttttcaaac tttgtttctg agcgctgaac aatctaagaa attttagcgc 360
 aatctaagaa aaaagactta ccacaaagca cctaaaataa cattgtagat ggggtgggaac 420
 gctgtcaacc atttcttaag tttcccttcc aagtctcagt atcaaggcat caagattcat 480
 ttcacaaacg attgncagcc ttcggaatca ggtantgggc ctgatgtcan aaaccgttaa 540
 aaccttagga ggggct 556

<210> 8201

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8201

agtaaaccce gtttattttac ataatacata ttttgtcatg cagcttactg aattgcagtt 60

agtgtaataa caaaaaaaga caagcactgt cttgctatatt gaaaatggct taatatagaa 120
 agataattgt ttcttaaatg agttaaccac aaccatataa attgctagac aatttaaaac 180
 agccatagat aatttttaaaa tgtaaaatct gtaggcaaaa agctttttata gttcacacat 240
 tggtaaaatt aaaaccagtc ttttttagta ataaaactgg atagtataat cttactttta 300
 tctataaaaa caaaaataac tttaatatac atcattacaa ggctcanatt tgtagacaac 360
 tttaaaatat tttttaatgt taacaatgtc ttcaaaatit taccagtagt gctgtgcaca 420
 cagtaggtgg tcattaaatg ctgactgaca tacagaagtg tttctagtta acagcaatcc 480
 atattcattc attcattccc tattttataa taaattttca tagcngtgaa aaaatgagan 540
 gntactttct taccatttta 560

<210> 8202

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8202

aaacaaaatt cacatattat ttagattgaa ataaactata caaaattgat tttcttcacc 60
 aaaaataaca gcaatatit ccatatitit ctagataaac cacaacactt atttttagg 120
 tttccaggt tttgcttata aatcaagatg aggcagtata taagagtcac ggaaaaagac 180
 agagaaaaaa aacagacaaa tcagttgtca gtatccatgg cctctgattc tgtctcaacc 240
 atgaaacaga agtgttcaac atatacctgc taaaagctt aggaagatgt aggctccaca 300
 aaggaatgta aacagcaacg agatgtggaa caacagcagg cttttccatt caaactttgt 360
 catttgtttc ttttaagttca agaaagacaa aatctacact gaaatccttg tttgggtgagc 420
 tcacaagctt tttctcggta atttcttgta actgtccagt atagattttt aacatactta 480
 aaactcctat tagtcaaang ncaattgngg gcttnactac aacatattat aaaatgggtc 540
 cnttcttcac acctttttta aaaatatttt t 571

<210> 8203

<211> 570

<212> DNA

<213> Homo sapiens

<400> 8203

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cactcataat ttaaaatact ttgttttgat gaaatgcttt gctttcacia tagaagatca 60
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aaatagtgat ttcttcaatt tgtttatagt cttatcacia agtaggcaa agttcagtat 180
taaataaata gatatacctaa taaaagtttg tacaagtctt cctaaggaat tacattcgta 240
agactgttta ccttctgttt gacagcagtg acaggaacgt ggggattccc actcatgacg 300
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tgcagcctgg gcttctgcga gtgaggtttc ctacctgga actctggttc catgtttgtg 420
cttagcctgt gcgattctgg taaacacaga aaacctgcct gtccaccccc agtgctgaag 480
actgactggt caangagggt ttagtgaaag tgttgggttc accatgtgga gaacangcng 540
ngattacccg catnttcttt gntgacttta 570
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<210> 8204

<211> 567

<212> DNA

<213> Homo sapiens

<400> 8204

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aaagtgcaga cttttattac tgccattcct gctcctaatt ggagcaggag tcagaaggaa 60
aaacaaatta aaaggggcta atgagaaagg aggagagatg agacagagag tgtgaagggc 120
tatgccgctg gcatttcata aattcttatt gagaatggca caggtattaa aaaagtttct 180
gggtagtcta cgagaaatgt caattattat ctctactaca actacttaca tatatctaatt 240
gggaaaagag tggggcttag gtgtcagagt ggatgggaga caaaggagaa gctacactaa 300
taaatacaac aagtgaagg tacctgtccc attcctaaaa ggatttgtgg gcaatgctgg 360
cacttggtgg ccaggagaat cttctgacct cactctccct cctcttcagt cctgaagacc 420
ccaagaacct agttaggatc ccctggccag aggtctctgt gactgcctct ggactcagca 480
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cgtgcagcag cttgggagga tttagccag tctcaaaaac ttttagcccc agaattgagac 540
cagtgcacca accaggaagg cttggga 567

<210> 8205

<211> 547

<212> DNA

<213> Homo sapiens

<400> 8205

ctacaaaaat aagacatttc atttattaaa attttataga gaagcataca agactacaac 60
aaatcactga agtcaaggtc taaagtcttt gagaagtcag atggaccgga cgcagtggct 120
cacgtctgtg atcccagcac tttagggaggc cgagggtgggc agatcatctg agctcaggag 180
ttacagacca ccctgggcaa caaggcgaaa ccccatcttt accaaaaata cagccaggca 240
tggtggagca tctgtggtcc cagctacacc agaggctgag gtgggaggat tgcttgggag 300
gcagagattg cagttagccg agattgtgca ctgcactcca gcctgggtgt cagagtgaga 360
ccccgcctca aaaaaaaaaa aaaaaaaaaa ggccgggtgc ggtggctcat gcctgtaatc 420
tcagcacttt gggaggccaa aatgggccgg atcatgaagg tcaggagtgc naaaaccagc 480
ctggccaata cngngngaac ccttgtntta ctaaaaattc caaantaacc cgggtgtggng 540
ggcatcc 547

<210> 8206

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8206

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tgcttgctgc ccacagggat aaagacattg tatagagact tgtacagtcc atgatttggt 180

cttctgaggt gccagtacac gtggatctgt acaaatgcaa ctgggtttgg ttaaacaatc 240
 gaaaatcggc tacaatagta gtcaaatgaa catgtcattt tggttcatta ataaaaatac 300
 ttcaaatat ttctaataa aacccaaaac ttgcaaaca ttctctcgga atggcccaat 360
 caattgccct attttttaaa atacattggg atacaatcag ctctgttttc ttaaaagaaa 420
 atgcagattc aattgggtgg gttgcattgg cttttaaaga attagcccat taaatcttca 480
 catttgaatg attgaaatgc cnttctgata ccacgttagt ttagaaatg ccgaatccta 540
 atn 543

<210> 8207

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8207

gaaacagttc tctttaccgg tgatcactga gtgacgcctg gggcggggag gccgaccgag 60
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 tcgtggaaag aggattctcc catgcaaacc ccggagccag aggagaagg gaagcgccat 180
 tctgcgcccc ctacccccgg ggcacggaca cggccacagc acggggggcg gtgaggcccc 240
 ggggacacga gacacggggg agggagaggg gaccccgccc gcagatgacc cgggggaccg 300
 gcgaccggac gcggcggggc ggagctgagt ggcacagggg gcgaggcttg tagcagcgag 360
 tccccctcc cctcctttcg gacnaagaag gaagacttgg gccccgcgac tgggcaggaa 420
 aaaggggagg gagcaacctt ntccccgcat gccggcccgg aaggaaagcc ccggccccctt 480
 tccgcggggt aaaggacacc cgttttccaa cngaaacttg ttcaattaat tnccaangtt 540
 tnagaaaang gaat 554

<210> 8208

<211> 545

<212> DNA

<213> Homo sapiens

<400> 8208

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ggtacatca attttttatt tatagttttt tctaaacaag atccgaagaa acttccactt   60
taattttccc cttggagtac ttaaagtact tcaaggttca atgtcaaag cagataaaac  120
cccttcattt tcaaacttac taagtgttaa caatacattt gatagtgagc agaatatgaa  180
agtacagatg ttatcaaaaag aggaaattct tatgatacta gggtcagaga ttaaagaatt  240
tgaacaagg gctttcatga ctggggaaaa tcaaagcttt tcttgaaggg agtgggcttt  300
taatactcga gctattaatt aaatgcagaa atgagataac atagttatcc tgaacatcaa  360
aaaagcaaca gctaatacag ctaatgcatt ataaataatg tatttcataa ctgaattaag  420
taaagcatgg ttaccactct aggctagaca ctaatcagtt taaccatttt gtagtttcta  480
attttaaaaa agttingcttc catattttta atttcaattt actatatata tattacatat  540
ntncc                                         545

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<210> 8209

<211> 535

<212> DNA

<213> Homo sapiens

<400> 8209

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aatttttaaa attttttttt gtaaagacag ggtttcccta tattgcccag gctggtctgg   60
aactcctggg ctcaagggat cctccacact cagcctccca aagtgtggg attacaggca  120
gccatgccc gccagggcag tcatttttat gcacaacttt ctgtggggct cagggtgcacc  180
tatgatacat aaattttacag ttcttgatcc ccaaacagag caggaggcag ggtgcctggg  240
ccaggcttcc tttgggaaat gtggtccttg aggtagagtc acagatgccg gaggggtgacc  300
agcactactg gggagagatc tcctctggga gagatgcatg ccaaaggtcc tctgcattcc  360
tcatacctct gatgcggaca gaggggtgtc cagctgaatg atgtggggcc cccgcatttc  420
tgcaactggg cccgaatcaa cttnctggc ctgctgtccc cgggctcttg gccccttaat  480
ccttngctgg gcagctcctt ccggattttt ttacatgtcc taagcccgat tgggn      535

```

<210> 8210

<211> 534

<212> DNA

<213> Homo sapiens

<400> 8210

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gggccacact gaggcacatt tatttctctg ggtcacacag agcttgggcc tgggagcctn   60
ttntgcatgg gggctgcagc tgccaaggga gcggtgana ccanaacaag cgctcgggtg   120
ggccccagtg caggttggga tgtgcccggg ggagtaaggc gtganaaccc ccagcctcac   180
tctntgcctg gtcctgaagc anacagcagc aggctggccc ancctcccct ttatganact   240
atcctagggt ttgacagcaa gtcccanatg aagggtgaca ggcagctggg gtccacctgg   300
tctctcctca gcagggggaa cccctgcgg gcagctggga aggcagtggc caaaggtaaa   360
gaagatgaac tctgccccaa cctctgctgc ctgtggctat ggtgggacag ggctgccttt   420
ctggtcacac tgggcaacaa gccaatggc aaggaccttc cantccaag gcttnatttc   480
ctggcccga nnccttttg ttgaactttt cgattaattc nccagggtta tttt         534

```

<210> 8211

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8211

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aagaacatca acatttatit aacatgataa aaaaagaaat gagatatgaa catttgcatt   60
taaacaatag taagtagcct ttaatacatt acatgtgctc attgtataat atatacacia   120
tgaacataat tacatttgta cacaaactaa gtaccggatt tgggaacctg cttattgctg   180
tacacatgta ttccaatgaa atataagccc agtacttcaa aatacctaca ctttgttttt   240
ttttttttta agaaaagata agcagtaaca tttgtgttta agctgacagg agtgtggcag   300
taactgctga cattgcaatc tgaccgagaa agaattatag cagaaaacag gacatacttc   360
acttagcaat aaaatggcac attttaata catatatata aaatttttac aaatcaagtg   420

```

tgaaacaaaa gcactgcagt agctaaaatg ggaagaaaaa aagaaaacca gcttcaatgg 480
 aaataatact aacttttagga aaatgagaag ccnaaaaatt ttttntnaa ttccccagac 540
 cttagaac attgn 555

<210> 8212

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8212

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 ccagtctttg cataaaatat cacagcttta tctataacct taaaattctg cagcagccta 180
 aagatatgga taagatatac caccacttgc tattctgaaa tatatctatt accatatcca 240
 acctaatgat agtatctaaa aaattctttc ttccatagga agtctctgac aagctgttat 300
 tcatttcctt gacgttaaaa gaatctgggg ccaacatttg tattttatca gaaaaaata 360
 aaaaaaagt ttacctacca tggtcatatt aagaacaatg tctatacaag tcagttgtca 420
 attattttta gagaaagggtg aacatgaaca tcagattaac ttaattctgg cagacnaaag 480
 tgaacaactt tngnccagtc agccattatc tantnccggg gagatggcca cctttccaaa 540
 agggtnnttt c 551

<210> 8213

<211> 484

<212> DNA

<213> Homo sapiens

<400> 8213

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 aatacagngg tgaatgaaag cagaccatgt ccctaccctt cacggagctt acagtctagc 120

ggggcanana gtcattccagc aaccccctaa taaagatata actacaaact gcgatcagng 180
 cctttanaaa aggaaagaat gccctaaaat aagggtccct ggcccaatct acagggtcag 240
 gcagggttta ctttaaggatg ctgaaaagca aaacgagcaa gtggggaggt aggggagtga 300
 naggtgctt gggaacactg tggganaggt gatgaatgca gtcccgaca aggtgagttt 360
 gaggaattat ttgggccatc agtcaagtgg agatgcccga gtttgatac atgaagctaa 420
 gggaagaacc cggagaaaaga naagggccnn aaagttaaga aggaaaaccn gccnantggg 480
 gctn 484

<210> 8214

<211> 545

<212> DNA

<213> Homo sapiens

<400> 8214

aaagttaaac agtatttatt caatttgctt attcttcctc actgaagttt cttgggcctt 60
 acatttttaa ttgataaaat agtcttaaata taacattcaa ataataagctc gttccctgaa 120
 ataatctaga gaagccctgc tccctctctt tttagactac ctataataac attctgctga 180
 gccaacatgg agcagttctc ctggcacatc ctgcctgggg aaaccgtggc agtgactgtc 240
 attaattggga gtcacagagc cctccagcc tctagactat gctgtcaagt ctgtatgggtg 300
 aaggccctga gtcaccacaa cactgaaatt gtttgaggtg ctctggaccc aggaaacact 360
 gcctggccat ggaacactct agcggaggag aggtgaggat taccctggc catggagcac 420
 tctggtggaa gggaggtgac ngattatccc tggccatgga gcactctatg gaagggangt 480
 gacngattac ctnttgatc atgggcntat gaaagaaaaa ggggtggggc tctagtaaac 540
 cccta 545

<210> 8215

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8215

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aaaacaaaa aacatTTTTT cattaaaaa agtatttaga acacacaaaa caaggcaaca   60
cttattcttt tttctcatct tctggtatgg gatctgttgg tggtcctcc actgttgcaac  120
tgttgctctc cgagccagtg ttactatcac tggttccttc ctctgccata ctgtcgaccc  180
cctcctgccc actctccttg tcctcaggag tagacgtgcc ttcttcacca ttctgttggc  240
tctctgttgt ttcttcaagg tgtgtctcct ctgtctccat cggaatgttc tcgtcgtctt  300
tcttctctc gcctttgtta gctgcttggt cttctcagg aacgatgctg ctctgactgc  360
gctcagcttg ctctgcggcc tccttctccc tttctcctg cctttgcggc ctgttctctt  420
gcctgtgcaa tctcagctgg caattttctc catatccact ttactttcag accggacaac  480
cttttaagct catggtnaat gaactggctt tcaggaattn ctcttcttct cggggcgctn  540
cctttttgaa naag                                                         554

```

<210> 8216

<211> 499

<212> DNA

<213> Homo sapiens

<400> 8216

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agttaaaan aaaagagctt tatttggtc acggctntgc aggctgtaca anaaacagtg   60
agggcttcag gctgcttcca cttatgcagg aagatgaagg gaggcaacgt gagcananat  120
cacagggcaa gaatgggttg aggggtaggg gtaagtgcc ggtgccagcc tcgttttaac  180
agccagctnt ggggtggggg agggacntnt agagcgagaa cttactcatt accccaccaa  240
tggaacnaag cntttcatga gggatccaaa cacctcccat taggccccac ctncacact   300
gggaatccaa tttcagcatg aggnrtgcng ggttgaatat ccaaactaca tcactttatc  360
agataaatga gtagtcattc aggttgaaaa ggggctcaaa tcctttaagg ggtcattcan  420
aatggtcaag gtcaaggttt ttgcaaccn ntttactgnt cattaatcnn ttatttacct  480
tccgattaag ggaanggcc                                                         499

```


<210> 8217

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8217

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aatatttgaa gaaatttatt gagtcanata tgagtgacca tgcccatga cacagccctc   60
agaaggctct gaggacatgt ggcaaagggtg ttcttcaaag tgttcattat taaggcatcc  120
atctcccata acttcaatgc actttgctaa acaatgcatt atttctgagg acatctgaat  180
ctgtttctgt accaatgggtc ttaatcagaa catcacataa attgccacat ctgtgtgaga  240
tactcaggac cacggactct cacacactcc agaagaaaag gcacggattc tgctgtgcc   300
cctccaacac cattgtggaa ataaaatttc agtaaaggga ccaccagttt gacaacctgc  360
ttggtgtact ccacaaagca gtcaaatcag ctatgtgctg caaaaggcca cttttttttt  420
ctttgagatg gagtctccct gtcaccagg ctggantgca atggcgcaat ctcgntcac   480
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```

<210> 8218

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8218

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gctttanatg cttctgggtc catcactggg acctaaaaga agtcacatg tggctctctg   60
aatgctgaa gctgtggact gtagacatta ttttcagtcc ttgtcctggt ggctgcatac  120
canatgctgc tccttccctg tgtgtggcca gctgtacaca gtgacatgct cccaaggccg  180
cggcacaggc ggtgatggga actcctcccc gggccagcct ctcaggctgc agccccacgg  240
caccctgagg ccctcatctc tgctcggcag ctaaaacatc tccttcttcg atgctctgca  300
actgcagcct ctggctcaca agagttctgc tgcctcggcg gccccgaag ccgccccccg  360
ggacaagtcc gtgctgtaac caagaccctt ggcaaagcct tctccccaaa taaagtttga  420

```

ttttggcttc ggcctcaatg gctttggcca aacttgctgc gtaactgnnc aaggacttgg 480
gnactttaac ttttacctga agaactcgagt tcttgggaac ttctttgaat tgggccacct 540
tatccctnaa anntanccaa 560

<210> 8219

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8219

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cagcctcgac ctcccaggct gaagccatcc tcccacctcc gcctcccgag tagctgaggc 120
tacagggtgca cgtcatcatg cctggctaata ttttgtatct gttgtagaga cgggggtttg 180
ccatgttgcc caggctggcc ttgaactcct gggctcaagt gatccgccc acttcggccc 240
ccacaaagt cggggactac aggcgtgagc cactgcaccc agcaggggtt gaacttttca 300
agccaattgc ggaaacatgc cctatcggcc ccagccccac ctaactcttg ctgaattctc 360
ctctcttcag acttgaaact ccacatgtcc ttgaatgtct gganaaaccc tgggacgtgc 420
cgntattcat gggtagctct ggtcaatggc accggtnggt ctttgaactt cttancgatg 480
canaacaaaa accccgtttg ggtataaaaa acatccatna acaagttggc accnngncct 540
tgggttga 548

<210> 8220

<211> 565

<212> DNA

<213> Homo sapiens

<400> 8220

gaagtagaag aacagatcat ttaattatac aaacaaaatc gctttccttt gctccagcga 60
gtccaggcaa cctttcaagt tcatttgctg cctgaaagaa aggttttttag tatcagaaag 120

aacctcgctg tcctccaata tccacaggga aaacaagatc agaaacaaaa gtccaccatg 180
 gaagaaatcc cagagcgatc caatttgga agaatttaata taacaaaata aaacggaggg 240
 aaaatggtcc aggtggggcc ctagggagat cggacttctg tcccagctga agtctgcca 300
 gcacacctgg tgggcagccc ctgggcctgt cactgcagaa ctggccttga caagcagacc 360
 cactgtgcgc gacgccacgg tticcttacg cactcggcat tatgtacaga tatgaaaaaa 420
 cccaacggca ggtggctgga aagtggcttc tagctnccct atgctggctt ggcacgttat 480
 gcatgccaa ccangaaggt ttgcnngctt taccacaag gtaatttngc aaaaagnagaa 540
 ccaccnccaa aaggttaaata ttttn 565

<210> 8221

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8221

attttttttt taatacaatc accacaacat aagaaaattt aggtttcaac tgatgttaaa 60
 gcacatttct gtatctggtg gtttttaaaa aaattacata ttatatattt gacattttta 120
 aagacaacag aaacaaatcc acagattact ccacctttac cccactttc agctgaaagg 180
 ttttaagaaa aatcttgcag gttatgagga ccagatggag cttaaaaaca gatccggaac 240
 tttttttttg aaattttatt tacttttttt ttttgtatct caagaatact taaaggaaaa 300
 aaaaaagggt tctatgagcc agaggaattc ccaattcact ttgaaattac catacctatc 360
 ttgccatata aaacatttca attctgttaa ctaaataaac tacataatat ccttaaaaaat 420
 cagccagaga agagaaaaac aaatctcgct tcattattga ctttgacca aacttattct 480
 ttcaanggt agtnacca ctaaataagg ctattataag aacntcttc ttaaaagnag 540
 tt 542

<210> 8222

<211> 529

<212> DNA

<213> Homo sapiens

<400> 8222

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gagatggagt cttgctgtgt tgcccaggct ggagtgcagt ggcgcaatat tggctcactg   60
caacctccgc ctcccagggt caagtgattc tcctgcctca gcctcctgag aagctgggac  120
tacaggcacg cgccaccacg cccagctaata ttttgtatgt ttagtagaga tgggggttca  180
ccatgttgac caggatggtc tcgatctctt gaccttgtga tctgcctgcc tcagcctccc  240
aaaatgttgg gattacaggc atgagccacc ggcctggcc cactagctct agtttttate  300
acacattgtc acctcagata ttcataaagg ttagatgttg caaaataata aactctgtcc  360
acaataaaca caggcacttt actaaaaatg ctcatataga cctgtgggta tcactataaa  420
ccatcttcta gaaatggaga tactagcaaa gagcctttcc tttgccttct cttctcctnt  480
ttnaccatcc cagggnctta atttnggacg tttaacttcc aaaaanggn             529

```

<210> 8223

<211> 524

<212> DNA

<213> Homo sapiens

<400> 8223

```

gttttaaata attgagcttc aagtaagggc agcaagtagt tttcttctt tttctttctg   60
ttttcttttt ttcttttctt ttttaaaga cgtgttttgc catgttgtcc aggctgggtct  120
tgaactcctg aattcaagta atcaacctgt cttggcctcc caaagtgatg ggattacagg  180
tatgagccac cgaaccacgc cagcatcaag agtttttaaaa ttaaggacat aacgccattt  240
cacactttaa atagactata gtgtagtgta aacatagctt ctttttttaa atagagacag  300
gatctcccta tatgccaggg ttgatctcac aattcctggg ctcaagtac cctnccgcct  360
ncgctcctaa agtactggga ttataggcat gagccatcac acccagccaa tataacttca  420
tattcacaag gaaacaaaac aatttggggt gactcacttg tagcaatata cngcttaatt  480
gngngngnct cgaatcaaat ctacaatata ttgaggnatn ggct                    524

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<210> 8224

<211> 528

<212> DNA

<213> Homo sapiens

<400> 8224

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cttaatactt atctttatta tgaaagtgtt tccaaagtaa aatgacctc ataataatga   60
ttgcttcag agatcaagaa tgaataatta tattttcata taaaaatcag caaaacacaa  120
taacaatata taaaataatt ctaattggct aacagtatct cattccattt ctgacagaga  180
tgctcaagca ctgaattgtc ttaagaaaac aagtaagggt ttgtcaccta tcctatttct  240
cactgcaagt tgaaaaaaat caaatccaaa caccaccacc cttctatga caacaaacgg  300
ctgtggaggt aaatgactat gtgggcaaag agttgatgaa aatcatgagc ttaggggctt  360
tatgaaactt tgggaaatca aactcagagg ttgntttcca ttcttaaagt aatgaagctc  420
taagttaaag tttcagaatc atcacataac tggtcctatt ccatactcat ttcttttttt  480
tttttgcagg aatcttaatt tcctaaggga ggttcatgga tgacnggg                    528

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<210> 8225

<211> 523

<212> DNA

<213> Homo sapiens

<400> 8225

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actaaattat acaataatag actcaagatt gccattgctt cttcactacc caaaatatcc   60
aagtctagcg cagcagcttc aattccacca gttgttctgt aagatttatt ttcctgacag  120
aaacaaccac tgcattatta tttttacata taaagccaca ttaagaagtg gatactgaat  180
acagaagcaa ttgtccttgg ttttctactc ctaagaatgg tcaccaagtc ataatatcct  240
caccaatggg actgcttctt aacaccctc aggaattatg aattctgagg ttaaattggtc  300
atatcatgat cagaataata aaaaaagata gcaaaaatgt taaaacaagt atagagcatt  360
caggaacagt gaggggaaaa gccatttctg nttccgtcta aatgcagacc tcttcatgaa  420

```

atattttggn ggaagttctt aagcctggna tgaatnacat gcntataccc tgcccagatg 480
gaaacctgaa aaaggatatt ttaattgggtt tggataggga acc 523

<210> 8226

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8226

cattctctga gtgctattta ttgtctcaat cttcattgct taaagtcagg aaacaacaaa 60
cacattcata tttgtggcaa aacatctacc tactcatgac atggcaaata gtcattttac 120
aataacaata cagtacaata tgatcgtgct actttcatgg ctaggaatga agttgttggg 180
tttctctttc agagctaccc ctaaaggcat tcactttata ttctctgaag agaaccagct 240
aaccaggcgg aacatccact aagaatcttc cacataacca gaccccagga gcttgcctat 300
tgcccatacc agagaggccc atttggaat acaccatctg gtctcttgag cacagacctg 360
gagtgtggga ttcagcttgg ctggctccaa agctggcccc tactggatca agctgagatc 420
cccagcctgc acaggctgga ttccactggc caacacgtng gcccctatggt gggtcctggc 480
cggggggttc cttttggnaa agacctggga naggaaagga gctttctatc tggagg 536

<210> 8227

<211> 524

<212> DNA

<213> Homo sapiens

<400> 8227

aataccttgg ctttaatgat ttttcaaggt taagaaacaa attcaaattg gttggagctt 60
caactcagta attacaatca caatgcatct ctgaaaggcc ctgcatttgg aggcagagta 120
atctgcaaag atgatagttt ttacatatgt cctgttacct acaccaatat aattactaca 180
ttatcttata aagacaaaca gttgcttcaa actcttttaa aaatatatat ataattgagtt 240

tcccaaagac tcgagtctat attcaaagat gagtaaaaaa aatccattac ttccttaggg 300
 tcactttctt cctttactcc tgcttaaatg caaaagctga tagtttctga tttgtagaaa 360
 aatctaaagg tttctgcttt ttagacaaat tcaggttctt ttttgctttt tcttctggn 420
 tttctgnttc atcactttca tcaaccacac gttttcgctt ctttgcttca gttccttcac 480
 ttggccgttc ttccttggct ttggtagccc caaccttttt tttt 524

<210> 8228

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8228

accaagtcca taattttatt atactctgaa tagagatgat atttaaggag cagagaaaat 60
 gactatacaa aagatttata gaacattcat ttacatactg gatataattct ttacagtatc 120
 agaaaagtaa aaatatgcac taacaaggca gagaagacgt tacaaggtat ttgatgctga 180
 gaataaatgc acagtgactt ttaacatggc tatagcttaa cactggagga atacaacaat 240
 acgttctttt actgagtagt tagtaggacc ctggctataa catgcgttgg gcacagttcg 300
 tgaactctcc gcatttactc cccagggcag tacgtgcctg tccagcggga gccctggaga 360
 caaaatgcct ggaaacgttc cttttcctgt ggccctagac cgggtgcacg gtgggggctc 420
 tcttacggnt tctgagccca cagtacaatc tgngatgacc ncacaagttg gtctggttaa 480
 tgcncatggt accccaaagg gagaaaggaa acnttctata ccagtttttn naaaang 537

<210> 8229

<211> 514

<212> DNA

<213> Homo sapiens

<400> 8229

catttgaaaa atattttattg agcacctgtt ataaggggct gagaaccata aaagacacta 60

ggggtacaga aaggaataat taagacggcc tgctcttgag ctcacagtct agtaaggaag 120
 gtaaacataa acaaatacatt acaatacaac aggaaaagag ctagagcgga gatatagaac 180
 aattgcacag aggaaagagt aactaatctt gcctgaaggt aacaaggaag agatggcact 240
 tgattttgaa gtttaaggat gagtgatatt ttagcacggc agagggcaga gggggcacag 300
 ggcattccag gcagagggaa tagcatgtgc aaaggcactg aggtaaaaac atgagcatgg 360
 ttggttcaaa gaatggtgtt gaagggtaca cagaggcggg ctgtaaaggg tcttgtcacc 420
 acactnggaa gtttgnattt tatcctgtan gccatgggaa agntttaagn ccacattttt 480
 catttgggtc ccanggtttc ttagaggctn ttgt 514

<210> 8230

<211> 544

<212> DNA

<213> Homo sapiens

<400> 8230

cttttttttg gtaaggagaa gcaggagtaa aggggagtag ctgaaataga aatgaatcat 60
 gttaagaaat agtaaaatca aaattaactt ggtaataaag ttgattttg ataaaagtaa 120
 atagacatgc tatatagaac aaatgaatga gtaatgtaaa taacttaaaa ttgagagaaa 180
 agctctcttt tcagggctag ctacagctct cccacaaagg ggcttttgca taccacataa 240
 cctgggtatg agaaaaagta tgggcagagg gcagtgttga gttttgtat ctgtaactta 300
 aggtagtgtt caaaatgtcc tacaaagttc ctccagctg taaattcttt atatctaatt 360
 cctacctcct tcgtggagcc tgtttttact actccaggta catcagattt ctgaaaccaa 420
 aaaatgaatg caatttaaat gtggctagaa ttgactagca aggcctagat ctttaagtaa 480
 taataatata ttttгнаacc attaatacct taagatcctt ttcaagnatt tggataccct 540
 ggaa 544

<210> 8231

<211> 532

<212> DNA

<213> Homo sapiens

<400> 8231

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gcattttaac ttcitttaata attcactcaa aactgtaaca cgagaggaat ccactgttta 60
gttaacattt acacacaatt ataaagaata aaagactgaa tacatttatg aacaaactgc 120
agtatgtctt taggttcata ggctgctcaa cacatttaaa gcgtatagca aatgaagtca 180
cagaactata gggctacaag aaaatccac aagtttatag cttaactgga atcagattta 240
tcttgataca gaataatcta taaactcatt taatgggtcat ttgtctcat ctaacaaacc 300
acacagatgt caaccaccgg gccttgcaaa tgcagagtgg ccatttacat ttaaaatgaa 360
gtattataga caaccagaat aaaatcaatt cccgtgttta ctattttcca ttttcaatat 420
gagcatttga aatgttaata tgagatcaat ttcactatit aaactcacat tacatatctg 480
aaactccaat gagtengcan gaatngacn tctgnagnen ttggctttac at 532
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<210> 8232

<211> 541

<212> DNA

<213> Homo sapiens

<400> 8232

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aacatgtatt tctcaaaata agattcacca tgaacattat tttagatatt tttacatctt 60
ctttagctaa ccaagtgaat aatccaatat acacaaatag gtactttcat cagtacataa 120
aacagcaata ggtagcaagg ttagaaatca gaatacaagt tcaattgaat aaatacaata 180
ctagtagaga gacaccatt ttttaaccac aatgaaaaat ctgagccatg aataggtttt 240
ccattttgaa tctaacttct agatgatctg tattttgacc ttaaaggggc caaaatattt 300
aatatgggtg aagctcatgt tccattacct gtaaagggtct aatgcaacag aaaaatgggtc 360
attttacatt ggtagaatt ttttaactagg tctttcatat tattttgttt agcacatgac 420
agacttatac acatatttta aaaaatcaaa catgggaatt tctatataca tcaaaccctt 480
taaccaatgg tctgggctct ggaattgnta ttataggtgn tcnaaaattt tccaaacnaa 540
c 541
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<210> 8233

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8233

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aaaggccaga aacaaacttt aattcccaag ccggaccctt aagtcacaag gaacgtcaga   60
tccggctcac tccctgacag ggtgaattgg aaactggccc ctacttggtc tctaaccctt  120
tccactgggt ctagtgggga ctctgacgcc gaacaggggc tgtagatcag tgagtgtgta  180
tgtgtgtgtg gaggggcagc aggggccgct ttccacgtgg ttacataagc acgtgttggg  240
gttgggcagg tgttcctccg gtctgagggt cctcgtatgt ccaaagtctc tgtgcataat  300
cgcagaccca gatgtgtttg catttggtag aatcagggtg cttaaaaagg ggtgactgag  360
ggctgcagtt gcagagggtg ctggggactg tgcctctgtg ggggccggcg tgtctcantg  420
ggaagatact ctggggaacc cgggacnatg tcgtacgttg ggtagctgtg tggacaagtg  480
gttgggggtg tgtggacatc ggtggtcaca agctgggaaa atggtgtanc ccaaaaaa   537

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<210> 8234

<211> 531

<212> DNA

<213> Homo sapiens

<400> 8234

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gtttaaactc gcattagaga gatatgcaac attctcaggt aacattgttt ctttggttac   60
atcaagattc ttctcttcag tgaactctag atgcttcaaa gataaagata aaatattttc  120
ttctttttca gagataatat cttcatcgtc tcttgggcta gtgcttctat cctcacaaga  180
atatgcacac aactcaatac gttcaatttt ctctggaacc gaagaactca taattattgg  240
cactgaaaca aaacgttgat aatgttccaa cattcttggt attttttctt tgcttaccct  300
atgaatgtta cgccttgcaa gttcctttgg tttaaacttc caccatgtgt ctggttcccc  360

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aaaaaggact ttatatattgt gtttctgaga caaagcaaca tatggtttca tttcccatgc 420
 ctgtaggttt gtattatcta taattatagg agatatcttc ttctcaaagc cttcttttgc 480
 acgattctgg gtccatcatg ngcttctcct aagactttac atcaactggc c 531

<210> 8235

<211> 538

<212> DNA

<213> Homo sapiens

<400> 8235

atattttaa tttttaactg taagtaaatt caaacaact gttataaac agaatacaca 60
 gttgtctgca tagatcataa aaaacataaa aaccagaatg ctgggtaggt gctgggtggg 120
 aaaactgcag ggctaaaact tgctcaaca tgaactagg accactatgg cttaatgaac 180
 atggcccacc cctcctacta atggttttgt caacttttgg accctagaaa ttcagaattt 240
 tctccttctt cctctgccag ctttgggtccg tgctccgacta cctggctgga cagtaacttg 300
 ctttttaaag nccactaagc aatctgtggc ttctgaaatg gaaacaaaag acttgacggg 360
 agattcattt aagtcacgac gtgtgaaaga actctgcac tctctgctgc aagcctgcct 420
 cttcatcctg gtgaaggcac cctgaaggct cctggttctg aagacttgat gnetgcattg 480
 gaggcttggc ttaaactgtt ccaagaaact aagggtcggc cttactgggg ctttttct 538

<210> 8236

<211> 549

<212> DNA

<213> Homo sapiens

<400> 8236

aaatatttaa atgtttatta ggtattatac ttatgaaaag tgcaaaaaca aagaactaca 60
 gcttactgat ttatcacaaa gcaaacacca cataggccaa gaaatattac attgcaagca 120
 ccttacatac tccactcatg cccctttccc atcaccagcc tctccctccc tttgaaaagt 180

agccattagt cttaatataa tgcagtcatt tctttactct cttttataat tttaccacct 240
aagcattcat atatatgcat gtgtataata cagtttttat ctacagaagt gtaaataaaa 300
ctattgcttt gctttgccta tatttgaact ttataaaatt aaaatcacat agtgtatggt 360
attcttctgt gctgtttttc acgtatattc atgaaatcaa tccacattgt ggcatactgc 420
tgtaatttgc ttatttcatt gatataataat attgnacaaa atggtacaat ttatcaattt 480
ctatttataa tggacatttg ggctgggtca gttggggcta ttnagaaaaa tggggcatgn 540
accggnntn 549

<210> 8237

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8237

aacagcttgt actttattac atatgcaacc ttgccatgcc tgccagttaa ctccccctccc 60
gccaatgtta tcctcatgat atcagctccc tcttggggcc actgagctgc ccccccttcc 120
ttctgggctg gagtagtggt gcccctcaag caggcaatgg gcagggggag atccacaatt 180
aatcgtcgca gttctcttaa aagtattaac acttaaataa gcactcttgg ggagttgcaa 240
aggatattca ggatgggatg cagtgggagg ctaccctca tccaaggtag aggctggaat 300
gagctacagc tggctctatcg tgggcctcag aaggtgaaga gggaccgtat tctggggcctt 360
agtgtgggtg gggcatatcc tccccaaact tgttctgggtg ggcgatgttc ttcacatcta 420
ggaaagcctg gtggtggaca taggcctgac agtagtaaca ccaggctgac aggtcgatgt 480
aactgaagga ccancgggtg tncaagaatt tncatggtgg ttggaacatg tggncattga 540
tgtacnacc cagtagactt 560

<210> 8238

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8238

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aacacaatac catttatata tgatacacia gacaaacata tttgaaaggt acatccacaa 60
gtatgcaaac attcaaagtt ctggaaagac acacattaag ccatgacaac cacagaaggg 120
ctaaggaaaa tttccatggt gaaacacttc tggggccagg tgtgatagct cacgcctgtg 180
atcccagcac tttgggaggc caaggtaggc agattacctg aggtcaagga gttcaagacc 240
agcctggtca acatggtgaa acctgtgttc tactaaaaat acaaaaatta gcctggcgtg 300
gtggtgtgcg cctgtagtcc cagctactca agaggctgag gcaggagaat cacttgaacc 360
cgggaggtgg aggttgcagt aagcccagg tgcaccact gaactccagc ctgggtgaca 420
gaaccgagac tctgtctcaa aaaaagaaaa aaattaccgc gcatgctggc acatgcctgt 480
aatccagctc ttcaggaagc tnangcagga aaaaccntg acccccana tggaagggtc 540
aatgagccaa ggtn 554

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<210> 8239

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8239

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gcttcaggcg cttttattag gttccactgc agggctgggg tcaatgtaat gcaaatacaa 60
gcccagtgat gcacacctgt gagccgaaac agagccgaag caggagcacc tgtgtcccag 120
gagcagctgg ttggaggag ccagggccag gcccacctc ctctcgggac caggagactg 180
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acctccttcc cacaagagga ggtggctgag cctcccaggg cctgaactct cacagcaggg 360
ctcaccacca agcctgtatg cttagctctg actctctttg gacaataaaa taaagtgcac 420
tactgaacaa agagtaactn aaaaccagaa tcagacaaat cgccnatgct ttttccttta 480
cttaaagacc aaagaaacat gaatgatgtg aatgcccgga acttnagagt aagggaatc 540
ttgtggagga caac 554

```

<210> 8240

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8240

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aacagatttg tatcagttta ttttggtgca aaaactgtga aattcatgca caatttttcc 60
ataaatatgta tttttccatg agcttcttga agaccacttg tactagaaaa ctgtattcaa 120
gaggatatat aaaaggattg tagatatgca agtgccattt acttctggca tgcaaggatg 180
gttcaacata ttcaagcaaa tcaatgtgat ataccacttg aacagaatga aagatgaaaa 240
ccacatcatc tcaacagatg gagaaaaatc atttcacaaa attcagcatc tgatcatcat 300
agaaatctta aacaaaatag atggagaagg aaatttacct caccaataga aagaccattg 360
atgaaatgac caatgtggag ataaccaagc agggaaaata gaatcctttt cccgtaggat 420
ctcacatgat gcaagaacgt tctcactttt tctattcaat aaatactgga agtcctagcc 480
agagcaatga actagccaaa agaaatgaat gcctcaaaat caggaaaaag ttaaaatata 540
tttttggnag a 551

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<210> 8241

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8241

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actagagacg aggtttcact gtgttggcca ggatggtcac gatctcctga ccttgtgac 60
cgccccacctc ggcctcccaa agtgctggga ttacagggtg gagccaccgc ccccggcctg 120
ggcttggttt tcttttaggtt taccctgtct ggggctcatg gaacctcttc aaacttaagt 180
ttttatctta caccaaatac gagaaatgtt tcatcattat tttttcaagt ggttttacta 240
catcacactt tctccttttc ttccaggata ctgaggtcat gaatgttagc catttggtat 300

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cataacactg ctccccaagg ctgttgca ca tatgctgaat aatttaagat tatagtctac 360
acttctgaat tttaggttat gacactcttg ggtctgtcaa gtcccacggg tgatggagat 420
actggttcat caggcgaagt nacctantca ggttcangag gcaagttcta ttggaaacca 480
tgtggggtcg tgcttttcat ggtggatctg gcttaaagnc tacgcanaac tgnnttatggc 540
tcttttnggc gaagg 555

<210> 8242

<211> 525

<212> DNA

<213> Homo sapiens

<400> 8242

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aggcaaacc tgcactactt cagtcacaac ccaatagtta acatgattct gaagaacagt 120
cttatctgca atatctaccc acttctaaac aaacacatct atagaaatcc atgtacatat 180
atattagttt tcaacaagtc aggattttca acaactctaa aatttcaatt ttatattctg 240
aacacacttc aaaattatcc acttgatgca ggatataacc ataggagat aaaaattcat 300
gcaatgatac tcaggttttt tttttttaa ggtaaatacca atatttgatc attcaatgct 360
acataaagtg cattgaatat cgaaaataaa acaagcgcca attttatcat taattaataa 420
cacatttatt atcttgaaac caaactggcc caagttactt tttggctttt tgagtcaact 480
ctggattaac tcaattcttt taanccttct ngggaataaa ancca 525

<210> 8243

<211> 530

<212> DNA

<213> Homo sapiens

<400> 8243

ggagggcagg taactttatt cagagcacat ggcgagtaag aggcaaaact tctgcctgcg 60

agtcaggat ttccttact ggaggacact gcttgctccc cagagctcaa gaccctgttt 120
 tttgtctcac tcccacccac agagctcccg taccaggca tcagctccca ctcccactcc 180
 tgggggctcc atttccttcc tgcccacat tcagcctggg ccagaagttg ccactggcaa 240
 ctctagtcct gggccagatc tggcccacag acgtgtttat ttggcctaca aaaagcagct 300
 aatactttga agttaattgt caacatataa cctttgggaa attaaacaaa aaacttgatt 360
 cccattttct taaaaggcct gtgttccctc tcacagcgaa agcaggggag cagccacttc 420
 ctttagaaca ggtgctagcc cctattcaga tagcttggt cttctttaaa ctgggctcaa 480
 ctggccntta ncccaagctt tggttccctt aanaaccagg cctggcccct 530

<210> 8244

<211> 519

<212> DNA

<213> Homo sapiens

<400> 8244

ggcttccaat aaaaaataat tcaactttat tagtatgaaa tatTTtgaga taattagtga 60
 cccaaatgca tgattctcca atatgaaagg tgttcagcat aagcatacaa tcatttagta 120
 aaactgctct ttatgagacc cccagaaaag ctggaggcac ttcctctttt tgggtggagag 180
 agaagacact acttaactgg ccatttcctt gctggagttt attccgattc ccttttgtct 240
 gattcttctt cctcaaactc gactaaagga gtgtgtctgt tggcctgagc accttctctg 300
 tagaacactt tctttactgt gccatccttt ggagacttta tggtagctc catcttcatg 360
 gcgatcataa ccatgaggga atctcccgct ttcactttgt ctccagcttt gacaaacacc 420
 ttttcaatgg tccagtcata ggagctaaag ggcccgcctg agtttcttgg gagctcacng 480
 nagataagat ttngggacct ggaaggcaaa ctcaatcct 519

<210> 8245

<211> 523

<212> DNA

<213> Homo sapiens

<400> 8245

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gggattagga gaacactctt taatgataaa gcctgtccaa gtactaagga caattagagt 60
aggcaggtga cctgtacaaa gtattagtga taacacaaca ttcagcttcc taagagttaa 120
aacgtgctgc ttacatgaag ggagatgata ctgagctaag aagtcctggg atagagaagc 180
agagagacca acctacttca tattatttat aaaatagaga atattctcag ctaacatgct 240
gggagaaaaa attcttccaa aaaggcagaa ttacaatcaa tgccaagatt tacaaattcc 300
atcatgttta aatataagga caaaaataaa catttcttat ttaaaaaaaaaa cccacaaatt 360
tccccaacta tagcttatct gttagcactt ctttatcagt ctgactattc tttaaaggcc 420
ttaaaacatg aatttgggat taaaacnaat taaagtgcc aaggtttaag aagccntatg 480
gtnacctaag gaggtaacna tataattttt agancatca tgg 523

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<210> 8246

<211> 570

<212> DNA

<213> Homo sapiens

<400> 8246

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atatttaaca gtgatttatt caaacatgtt tcacgtttgt gtattattag gtaacaagga 60
tattagaatt gagtctttac tcctatcctc tagccagtta gttttatcag ggagataatg 120
cacacatgtg tacatggaaa gatacaaat aatacaatgc caaagaaagg aactcaaaat 180
atgataagac agaacttgag ctagatcttt tgaaaagtta ggatttagat aagttgagaa 240
gaatgagaga aaattgctca caagagttag gaatatattgt gatgtgtttg ggaaaaaaat 300
aaatggaatc atttcactgg aattgagaaa tcaattagga gatattaaaa gctggggaaa 360
ggctggattc taggggtttc atatgtcatg aagacataga tttttgagcc aggaatattc 420
gaaaagcagt gttttggaaa atangcagca gtaaataaat gagaaaatta aagagatttg 480
angcnggtag atttctaatt tnaaatcatc aangccgaga aangaaggaa ggaaaaccaa 540
ggncgtttnt cagtatggtc cttcaggac 570

```

<210> 8247

<211> 576

<212> DNA

<213> Homo sapiens

<400> 8247

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cactgtgaaa tatttatitt tgttttgtag tattaagcat gattaaacca gtgcagaaaa 60
atactaagta cattgggtaa aagatgagct agctgttcta gtatttgctt ttgtaatcc 120
agttaagacc atgagcatat acaatatcat cactaactca acaatgtagc tgcagggtaa 180
catgtggata ccctgtgtgc tctactggcc tccaaaggca ttcaggggat catcaaagat 240
gttgacacc ttgtgttcaa atcttgggtc aggtgcggcc tgtgcagatc ggcttttttg 300
tttggttgtc ttagcctgga taccagtgga gaagatgtca tccatatcat catcaaatat 360
agacttggt tccactttct ttttgactt ttcttttgg tttacagtta agtcagcaaa 420
gatatcaatg gtatcatcaa ataaattaga ttccaatggt ttctccttct ctctgggttt 480
ctgaaaaggg ttaaagtctt ccgtgcaaaa tttatcatcc tcaaaaatat cttgggtggt 540
aatatgacat cctgntgact acnggatttg gctcat 576
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<210> 8248

<211> 354

<212> DNA

<213> Homo sapiens

<400> 8248

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ggacnccaac tgcagcgtga ttatttgac aagacgtgca cttttcaaca gggcctnagt 60
aaccacggtt tccttcaactg atcagtacag gaccagggtta aaggggctta aagataanaa 120
agacaaactn ttcccaggaa cagatgggga aagaaaggag gaagaanagg catgtcctcc 180
cttctcctt cctagtact ntgggcctcc gttcaccccg tgctggantg gggctnacca 240
agggaagctg ggggcantgt gtgtcacagc cagacatgan ctgaggctnt gactgtccac 300
tnagggtcaa aatggccagg tggacnatca actntgtccc cactnaggcc ccca 354
```

<210> 8249

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8249

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aaattgaaga aagtgaaaag agtaagaggg gacattttgc atgcaaattg gccactgcc 60
gaagagccca ttaaaatgta aaaactccac attcagcctg acaaaacggt gcaaactgct 120
gtgtttgcc  gagggccggc aataaagctc acaacaaagg ggccggggga caatggcaga 180
ctgaatggcc tctgccagca ggtccccccg tgcgttgcca tggggacccc accggggctt 240
actaaaggta tttcctgagg agaaaggccg agcacacagg cccaggcagc cgggctaatac 300
ctgacaggaa gccatggcca ttcagcagcc caggggcttg gggcccagag ttttgttttg 360
tttttattaa aaaaagattt cggccttttg tgcgtccacc tcgtcactgt aatttaatgc 420
cnaaccgcc tgcactagcc aaagccacag caggaacctt gaccgcgncc gagaccccc 480
aaaaacagat ccccccgagc ttggcancaa gacacgtgtg naatccccctt gggaatcnag 540
gcnccaaaac tnttgccccg ga 562

```

<210> 8250

<211> 544

<212> DNA

<213> Homo sapiens

<400> 8250

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gagatggagt ttttagctct ttttggccag gctggagtgc aatggcgtga tctcgtctca 60
ccgcaacctg cctcccgggt tcaagtatt ctctgcctc cgcctcctga gtagccggga 120
ttacaggcat gcgccaccac accaggctaa ttttgtattt ttttagtag agacgggggtt 180
tcttcacatt ggtcaggctg gtctcgagct cccaacctca ggtgatccgc ccgcctcagc 240
ctcccaaagt gctgggatta caggtgtgag cccacacccc agcctaaaaa atgtttttca 300

```

tattatattc caggtaatcc cagacctcta tggggtaaatt ctggggattt ctiggaagaa 360
 agtgcactca tggaggggtct gtccacttgg ctactccaa cagtttgaat ttggaattct 420
 gcttttcttc atgaagcaca agtcttataa gcccacacct acggncttga gtctgnactc 480
 ttancangtg ggaactggga ctgggggttg gctaacangg gggccactgg gcaaattggn 540
 tttt 544

<210> 8251

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8251

ctaacatgct tgtatttatt atattaaatt acaaatgcct ggagttacat ttgcttggtt 60
 tgtgtgtgcg tgcctgcgca tctatgtgtg ctagctccat attaaaatca acattttaa 120
 attaatgcaa ggtcacaaat ataaatggct acttggtttt tttcccttaa aaattttagt 180
 gcagctttgc tttccttaaa gtaatatatta attttccatt attttctatt taagcccttc 240
 atcgtgggtg taaatgggtac tgaagcccca gaaagtccta cagagatttt tcaccctaca 300
 gtagctctat gcttcaagcc taaatatatta taataacctg aatattatcc ctgtttcaag 360
 gaagactttc ttgnctacgg ttcaccctag ctatgatttt atatctaaaa gataatgcca 420
 acaacaaaac agcctatacc taaaattgat gggttattct gagtctgngc agatcatctg 480
 atgaaatgna actacttacc caaataaaga cgatgntctg tacactggat agcaatn 537

<210> 8252

<211> 151

<212> DNA

<213> Homo sapiens

<400> 8252

atgagtaaag ttaaacttta ctttacagta aatTTTTTTT ctatatacaa agaattacag 60

tacatgttta tggggactcc taacacaggg ctccccctctt tttcactagg agtttcactt 120
acagctgaca atctatgggg gcggnnnnnn n 151

<210> 8253

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8253

gagaggaaat aaagtttatt taaattcagt ttgtcaaagt acaaatatct ttgtacaact 60
tacgttcttc tttcttaaaa cttaaaagct agtagtatat tttataagca tttctccaga 120
ttttgatttc acaatccaca ataaaaagac tgtttaaaag aacttatttg tagaaattct 180
aaagttgtgc atttacttga aaagttactt tcacaaaggg tttttcaata tttcatctta 240
gttgtataat taaacagaat aaatggaaga attacacata aaatactatt caactagcca 300
tttttgntat tttaaaactt aacaagtctt tttttttttt tatatagcac acatataccta 360
acattttcta ctggataata taacagtaac agaaaagcat gtgttggtca aaaaagatac 420
tatngaattg ccaggcttat tgnatatattg gnggtcccat gngtaacact gngtacatcc 480
tcaattttan gggcttttaa aatggtttgg ttttgaaacc ttggttacnt aacgatt. 537

<210> 8254

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8254

aatctcattt cattaccagg ccctgcgtga atgccatgtt gctttggaaa acaaaaccaa 60
aaaagaaagt cttggtaggg aggggctttg ggaaggacca tgagagagag acagtgagaa 120
agacagattg atttatggag ctccatgact agatgctgat tttccaccag aggtcaaagg 180
gccacccac tgtgccaatc tcctctttct cttctctcc tcgggcagat gagcctggta 240

gcccctggca gtgatgatgt gggaaccacc tccacaggga atcactaggg gaattctcat 300
 aggaggctcc cctttctctg tccccttctc ctgggcagtg gttcttaggg ggaacttctg 360
 ggaatgtctg ggggctgatg ctgctacagg gcctgcanag ggtgttactg gcattgatgc 420
 caggggccag gattgctgga tttcctacaa gggtaggaca tgttcaatga caaatattg 480
 gcctccta at ggcaaatgcc ntaattaana agcctttgca atgccggaca agcttacaaa 540
 gg 542

<210> 8255

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8255

atgatttgtc ttttaataaa aatggtaa ac tggagagaga aaattaggtt tcaaaaacta 60
 tagcacacct gttaaattct agtcttgact gatgtttttc aatttttatg gttttcgaca 120
 gtttaaatta catctgttac aggaatcaac ccctgcatac atcacactca agtcaaagcc 180
 tgaaaagctg aggaagcaat cccaacagcc cagaggaacg tcctaaatat caatgtaaag 240
 aaataagaaa tcttaagttg aaaatcataa aaaataacta actgagtgac aattactcat 300
 ctgactcagt ctcactctta cctcaccaag tactttttgt catttctacc tctcctttta 360
 agccaaatat taaagcttat ttatggaaat tatttaccat gccacccttg cggaactgc 420
 ttactggac tatttgcagt aggactatgt ctgnagcacc ctganggtan ggattcagac 480
 agacaatctt caatacccga acattttgcn taaatactat ccttccgcag gaataacnag 540
 tt 542

<210> 8256

<211> 380

<212> DNA

<213> Homo sapiens

<400> 8256

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ccccattttc cagatgagga cncgagggc cagagnggtt ttatttagct gctgaattcc 60
ctgacaagca cagagacaga ttaggtgtca ggatattatt tatagagccc ttggccttta 120
tatccctgaa tcagtcattt gacaccaggt tcttgatttc agttccaaag ttatttcaac 180
cactctnate atnaanccat tctgaaaggg anaaagggtt tnttaaaaat gatcatggag 240
aanaagtaga aaaaaatgac ctctggaggt ggacaaagct ggntccaaat cctgcaattn 300
ccncttacta gctgnttaac tctgaaaaag cttttaagtt ttnggaggtt cantatccct 360
ttttttttaa aatggngatc 380

```

<210> 8257

<211> 534

<212> DNA

<213> Homo sapiens

<400> 8257

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gttgtttgcc tttttatttg gccaaatcca tagcgactat aactaaacca aaacatgagc 60
taagtaaagtg aaaactactt tcttctggag gtttattttg gataaaatag ttgaagacag 120
actacaatga gacattgtaa aataagacta gaaaataatt taagagcgta ttttaagcac 180
gggattccga cacactcata aacgtgtttg ctcccagctc ttacaaaaga aaataagggt 240
tttctccatc aaaaacaacc cagttacacc agtaaattctt cccagttctg aaaatctgaa 300
gcaactgata ctccattaaa tgtggaaaca ctgtctactc aaaatatttg taatattatg 360
cagtgacaaa aatttcccac acctatatag ggtaaacat agttttcagc aaagcaacaa 420
gtgctttact tatttggtt tttcagttta tacagagctn caattcatga aacctctgg 480
gccaaaccag gaaataacag canctttta cgaagccgc caccaacggn tctt 534

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<210> 8258

<211> 540

<212> DNA

<213> Homo sapiens

<400> 8258

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ctgctacaaa gaggacatat atttgtacat ccttaccat atacataata acacaattta 60
cacataatat cttggagtgg gtcacatgg aaaaggggtc tggagagccc cttctgcctc 120
ccctgcecca atccctcttc aagggatgct tatacacttg gtcactgggg cccttcccaa 180
ctagtttgat ggggctcgtc tggacacaga aattcagaca tgtgactaaa tgctgatggg 240
catgtataca cattcacacc cacacacaca tgcagacacc tggtagagaa aggaaaaata 300
aaattcctag cccttgggtg taggcctctt tccagagtta caagcatcag tgcctcctcc 360
atctagaata atggttttaa aaagctaccc ctnactggct caaactgggg cagaagggga 420
acngctagga aaccaggaag anggaagaag gggccaggaa tctttcgaaa atataaggcg 480
tttttgacct gngatcaaat aaactttgtt cccaaaaaaa aaaagcaccg gttttnantt 540
```

<210> 8259

<211> 553

<212> DNA

<213> Homo sapiens

<400> 8259

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gaaggaaatc tgtctttaat gagcaaatgt aaggctgcgt tttctttgcg aagtctccac 60
aggattttca cggcaaaacc aatgagaaaa tgtcctttca aagagaagac cgagtgtccc 120
gagaacattt tcttgaaagc gcgtgcacgg gccgccctct cgaggcatcg taatgtgctt 180
caaagaacac ttggtaaaac cctctggcta aaaaatcaaa atttccaaag catatacatt 240
tgaaaaaaac aaaatctcca cttaaaagct tattttgact tgttgcccgg gatcaattgc 300
aaaagcgctt ctgttgagaa aggacagttc agccaaactc aagctggttt ttagaaacag 360
aactggagga agaaaaaccc agaaaacata aggcaactggg caaatgtgac gtaggctggg 420
atgaaaccca ttcttccaga gcccggtctn ttccacagca caaagctgnt tctcatgcaa 480
ccagctggct naaggccccg aatgtgtgcc cagaaggagg accgggcttg gggaagggna 540
aaagggaagc ttt 553
```


<210> 8260

<211> 518

<212> DNA

<213> Homo sapiens

<400> 8260

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agttcttcag gttcttctcc tggaaaggcg gaggacacac caaactgcac tggccctgtt   60
aggggacacg gcaccctcgt gggaccaggc tcagccctcg ggggtggcacg aggtcctgca  120
ggctgcagga ccttcacact ccagccccgt ctggtgaccc aaccggggcc cgtggtgcat  180
gctggggaag gccactggcc ggcccctggg cttcggtcc tgaggaggca tggccccaca  240
ccctgcccgg ccataaatat atacagattc ctgggcatcc agggcaccag gaccgacgca  300
gagctggggt cctgtcccta agcctgtggc acagcgactc ttgacatggg agccaggagg  360
ctgggaccgc cgcacccctc ccctgcctcc ctctgggggt caccaccctc angcggtgc  420
agctggccta ngacgccgng gaacttgctg ggtgcttgtg gnccagttct ttgacctttt  480
cacaatgtnc tgggccgngg aaggcnatgg gtactcna                               518

```

<210> 8261

<211> 532

<212> DNA

<213> Homo sapiens

<400> 8261

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gagctgataa ttgatcttta ttatacagaa atgtgaaggc cataagcatt aaatgagaag   60
gagtttgga gtgaacatta tgcagattca aactgaaggt atcctcgtct tactgagata  120
taaaaataaa cactaagagt tgcaagaaag aactcaattc aacttctatc tcccaatcaa  180
gctataactt tccacaggaa aacctggttt caattcatgc cgaattgttc aaagaaaaga  240
aaaagctaaa tcagtgagag acaacacatg gactggcttt tgcctatta gagagccaga  300
ctgaagctgt attcagcctc acatttagag actgtttcct attacaattt atatctctat  360
ttgcctaaga gatacctaaa gtgaaaaaca aaaaaatgtt aactgactgg ggcattttgt  420

```

gggctaagta gatttggcag angagagaaa tgaataataa tcattaatta ttctaataca 480
gaggattnat gtcagnctgg tcatctggan taacccttga cgtttgggtg tt 532

<210> 8262

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8262

agctttgtgg gctgagttta ttttgcttct gggtataaac aaatgtagtg tatacacaca 60
tctgtccaag aaatcttgca caaggtggat ttacatggg gtatcatgca caagattaaa 120
aacaagacca aaaggtggaa attttaaaag aggaaaatat aaaggctcca aggtttaact 180
gctctgggta gaagagatca catctgttga ctgaggatca cagaaaggcc caaaacgtcc 240
ataaatatcc ttggctcgta ctgcaaagta gtatttgcta ccagatacaa actgggtgag 300
agtacatgcc atgggcaagg gaagtgcctt gacttcccca atctttttcc attgtgaggg 360
cacagtggca ctgggttcct catggtaagc atagagatgg tagctatcaa cagtggcaca 420
gcttcgatcc accttcaggg acaccccatg acagtactat gccattttga ctctgaacgc 480
ctgctacttt caagtggngc ttctgangen aaaaaanntn cttggcaagt ttntgggggc 540
aaaccctt 548

<210> 8263

<211> 546

<212> DNA

<213> Homo sapiens

<400> 8263

ctaagcagca agccacgcac ctcccgcgt ggcgaaatcc gagacccgcc ccttccggaa 60
gttttgacac tttgtgcgcc ccgggcaatg cgattgagag ggtaatcatc cgggtccgtta 120
tctaaacccg tcaactccggg aaacagcgac ccgatctttc cggatccgcg ctctcccagc 180

atcctttgcc ttcgggtatg tggccccgtc tggctagtcc cgcctagcgc gccatttcg 240
 agcccaagtt tccagctcgg gtttccaggc tcagaatttt ccaggagtag gttcttgggc 300
 agtggctgtg ggagctggaa tggcgcagct ggaaggttac tatttctcgg ccgccttgag 360
 ctaccttttt agtatcctgc ctctctttct ccgccttcag ccgggcgttg cgagagccct 420
 acatggacga gatcttccac ctgcctnagg cgcanegcta ctgtgagggc catttctncc 480
 tttccangtg ggggtcccaac tgttcccaac ccaagaaaag cctnaaaggg ccancgtnc 540
 cacttc 546

<210> 8264

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8264

aaattactaa tgaatgtatt tgagaaatcc aaattacatg cagacagaaa ctggtcacaa 60
 aaaccattac atttctctat actaaaactg tacaatgttt taaacatttc caatcatgca 120
 acggtaatga agatcagcat gaattttata agagttgatg ggagttcaat gaacaggatt 180
 taacacattt tacaacccaa atcaaagttg aataatacat ccaattcccc taaatttata 240
 tatgcgttga gactgaaatg cacattattc cccacaact cctcccccta cccattccc 300
 aatcaattac cttacctata aaaccttcca tttaaccttt taagtcagat ttgatgggta 360
 aacatgtaat ctacagtata ctctccatta ttatttcagg atagacacac atatagtcag 420
 atgctgaatc ttcattacat tcctttcaaa angcatctaa actggtgcaa ttgnctatga 480
 aaattcaggc ctaggaaacc nagaaaactg ggaggcaaga atctgactan gnaggttcca 540
 actntatccg a 551

<210> 8265

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8265

```

cacattcaaa acagtacata ctttattttc aagcatacaa gaaacactaa actcttccag   60
tgccagtaca ctctccatga attcttcata tagaattggg tatattggaa gcaagttggt   120
tctggtgaaa tttctgatga tcaggaatca agactcagta gccctaaagg aagagagttt   180
tgtatccaat atcctcaaaa ccaagacata gtatatattta ctttcaaagt aaactataaa   240
cattttacca tatecttcaa tccataaagc atctcactgt gaaatgatcc atgttgactc   300
tgcataattc tcagaagtca cttcaagtga tgaggggacta actataaaac atgcattatt   360
tgaagtacat gagcatgaaa catcgaagtc tacaacttat cttaaaagaa agagtaagtt   420
ccaccagctt tttattgggt gaataacnag aacacacaaa accaggcaga gaagtncgca   480
agгнаatgga tgatcatatt tcactgggtt ttggnctttt ggnccctcat ctttcaagcn   540
cttccgggnt t                                                              551

```

<210> 8266

<211> 561

<212> DNA

<213> Homo sapiens

<400> 8266

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caggcaggtg aaagcatgat tttgctttat ttggacaata aatgtaggaa aaaagagata   60
tacctagttg ataagggttg cattcttctg aatcatcccg ttatcaactt gaccaagcta   120
aaatctttct cacaatccac ttctctttct cttcctaate tgcatgggtc caggttagag   180
ttggccaaaa gaggagcttg ttcaggattt tgaagacaga agtaaagcag tggccattac   240
tctcagcagg tcgtttactc tgcatccage ccatactctt gaatgctgac ctactgacca   300
agcaaatctt catccatggc cccagagatt caatagctac acagaggcat cccatagccc   360
cctagaggag ctctctcttt gctttccatt caatcccaga gctgtgggat tctcctgcat   420
ttctttttta cttctctagt aaaatgtaat cagccttttc tgnagcatat tccatcaatc   480
actgncaaag aacatgaact tcacattaaa gaccttaaaa ggggcctccn ttttttagcc   540
aaaaaangga ccnggttncc g                                                              561

```

<210> 8267

<211> 553

<212> DNA

<213> Homo sapiens

<400> 8267

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actttcttct ggaggtttat ttggataaa atagttgaag acagactaca atgagacatt 60
gtaaaataag actagaaaat aatttaagag cgtattttaa gcacgggatt ccgacacact 120
cataaacgtg ttgctccca gctcttaca aagaaaataa ggtttttctc catcaaaaac 180
aaccagttta caccagtaaa tcttcccagt tctgaaaatc tgaagcaact gatactccat 240
taaagtggga aacactgtct actcaaaata ttgtaatat tatgcagtga caaaaatttc 300
ccacacctat atagggttaa ccatagtttt cagcaaagca acaagtgctt tacttatttt 360
gtctttttca gtttatacag agctccaatt tcatgaaacc atactgtgcc aaaccaggaa 420
ataaacagca acactctagc gaagccacgc caccaaacng ntactatctn ctgncctttt 480
accagctttt ctntttccag acaggcaggg cttgggcctt atatcaacac gggttattcg 540
cttcctttnt ttc 553
```

<210> 8268

<211> 547

<212> DNA

<213> Homo sapiens

<400> 8268

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actgttttaa gatcatttat tagaacagtc attcagaagc cattgagaca tcaggcagca 60
gaaaggaagg tgggatggag caggccctgt gaaggaccaa gaacaaagta atagccacag 120
ttatgaaatt tcattttatt ctgataaaga ctaatatatg cttgataacc tagtgataat 180
ccataagttt ggtatttcac aacatttttt agaaagcaca taagattaac attcaaataa 240
ggcattatag aaagttttat aaagaatgaa gtgtttccta tatttctttt aaaaaacctt 300
```

ggttcacatt gaaagatcga tgaatTTTTT aaatatcaga agaaaaggga aataaaattt 360
 tccccccaaa acacataaga accacttact ggcacttgta ttttaagtcc tgggaaaaaa 420
 acggaacaga tttttaaagg caataacgac ttgtaagacn gcttgnttca tttgatttgg 480
 cacgaagtaa agtnagagtn aatatgcctt ggnagacata atccaggttt tctcatctn 540
 tcatatt 547

<210> 8269

<211> 439

<212> DNA

<213> Homo sapiens

<400> 8269

gacacgagac ataaaaactt ttaatgaagg aggacacagc tcagagccct tccacatgcg 60
 gccaaccct gcccacgga gaccggccat ggcaaccgct caatcagaag gtgttcttga 120
 tgcggccggc caccagccta aggatgtccc cgatcttctt ctgccagttg gcgatgtcct 180
 tggacacggc gcaccacagc tccccatgcc gaggtctctg actctcacag cgcttcctca 240
 cctcctcctg ctgctcctca gtgccatgct gcagctcaaa cttgtagaag aaggcccagg 300
 catccccag gtccgagtca atcttcacag tgcggtggaa ccactccctg gccttggtga 360
 tcttccgntg actccaaaac agcttggcca cggccaggan cacatggggg tcatgctcac 420
 actnttnan ggnatncac 439

<210> 8270

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8270

cagaaattga atagtttttt atttgtttgg gtcaatctca gtactactag aactcaaaat 60
 actatattct aattgttcta atttgtacca tctgcaaaag accctttaag actgcttcaa 120

tgattctgaa aagaattaac aaaaccctgt tactaggtgc ctgaccttag atattacaac 180
 tgtttcattt acaaaacctc cactacaaaa cactaagctt gcaacaaaac aacaaaatga 240
 aagccacata atttgagtaa cacaatagta catattcttc agctgatgag agtaataggg 300
 aaatgtatat acttcttaca caaatgcac tagggaaagc aggctatatt tattcaagaa 360
 ctagaaaaag gttacaatat aaatctatca aacaaaattc atttttgnta tattcaagta 420
 actcatatat attcaaattt agaccaaatc aaggacaaca atccaatcnc aggattatta 480
 tatagctcaa ggggccaaaa acaacagtct ttggcaatcc aggacttttc ntaaattccc 540
 aatntnna 548

<210> 8271

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8271

actgaaaaac tcagacttta ttcagattaa gttcctctac aaaaagtagg gttctgtccc 60
 atgtgtctct gacacattta caaaatacca gttttttaaa attttggta aattatgagt 120
 ggttgattta aaaacttttc caagaagaag aaaagcatgg agtcgtaatt taaagaactc 180
 aataaaaact tctatTTTTT attttaaaat aatatacaca gtgttatTTT cttcaagacc 240
 gtcctgtgga tgtgaaatcc gtcttcgcgt catgtatctc ccatatccag cagttcagcc 300
 atccagctac ctttgggacc ctgctgcacc ttgtgtttgc tggggagtca ctggagagtg 360
 catctctgtt cagtttcagg gcacgtctca cacatttgct gntccttatt cattgggtgac 420
 acaggggata ggtgatccac tacttgctgt agaatgtcct tactttcact aggangcaga 480
 ttactggaat agtattgggg gaccagctgc ataaataggt cangagagat tctgaggnaa 540
 tnc 543

<210> 8272

<211> 531

<212> DNA

<213> Homo sapiens

<400> 8272

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ctttgatcaa gtttttaata agcttttttc ttacatgtac agtcatctta aaaagacaaa 60
tattaactat tataagttaa atactataca atttatgaga aatgtaattt tgtgaatttg 120
aaaagtaaaa gggaggtaac tactaaacgg attaaagaag aaaattctac tttttaagac 180
attttaacca gacagaaagt gagaaattac taatttaagt aaacactaaa aacttttact 240
gaagctggag accttatact attttagatc aaaccttcat ctacacagct ttaaataaac 300
tttaaaaaat cttttctagt acatataaga ctgctaaaaa gagtgcata ctgggggaaa 360
aaaggcatat gctagaatgt gaactcctga agaacagaaa tacatttcat tcatctttat 420
ccctggattc ctaacacaat gcctgggtca aactaaaatg cttaaacaac gtttgctgct 480
tgaagtgnac tggggcnaat acatctttcc actttgggcc agtttccttc n 531

```

<210> 8273

<211> 465

<212> DNA

<213> Homo sapiens

<400> 8273

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aacaagaccc aactatatgt ttattagaga agaaccagca aatatattga caaatatgtt 60
gaaagaaaat ggggtgaaaa atacaccatg caaacagtag acatcaaaag gctagactgg 120
ctagactgat atcagacaaa atatacttaa gccaaaatgt acactgcata tttttaagtg 180
gagaatttta tattgtatga aattttatgt tctgtcaatt atatcacaat aagaaatgta 240
ttatcaattt cattactcca taatgataaa agnctaating tcaaggacaa cacancagtc 300
gaaatttgta tgcattcaat atatgaagca aaaatacatg aagcaagtaa ctgacagaat 360
gaaagtgcag aagagatagt tccacaaaca tcaactgcaa tattaacatc tntacctagc 420
agntactaga acanttagac cagaaaatga ntaaagacnt nnaag 465

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<210> 8274

<211> 525

<212> DNA

<213> Homo sapiens

<400> 8274

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cttgcaaacg tcattcttgg acacaattag gtgacatgct taattctccc cagcatgggg 60
acattcttcc tttctgcaac ttcacacaca caaatccct ggagctgtcc caagtgtgta 120
cagtaataac gttcacatgg ctactccaag catccagtga tggcaaccaa acgagatgca 180
gttaccacag agcagtagtc tgacttttga taatcaggaa taaagaaccc agtggtgaag 240
gtgctgggtc actgcctcaa tgtgggggtac cttggaaact gcctgccaaa cacaggtcaa 300
ggtggaacat acatcctcct ggggaacggc tggtaacca gtcattgtta ggagttgaga 360
gttctactgt gggaagaggt ggcaacagct gataacacaa agcactgtgt agaccaaagt 420
gaaagtcccc atcaattgct ggttctaatt cangtgactt ctggtatatt atgggaccng 480
ntngacaaaa acnggtngtt aaagcttgaa agatttaata ngcct 525

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<210> 8275

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8275

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aattcattaa cattcatttt ggtgataaaa attccttagg gtgggagcaa aatcacattc 60
ccaagcaaat gttaaattct cctgagggaa aggggtacag ttaaacatta aattctcaaa 120
ataccactga gctcagagag gtgattgcag gtcctcttga ggcaggctac accccacagt 180
gatgacagac ttggcaggtt ctgcagtaac acggtcttct tcattcagcc agcgagatcg 240
acggtgatgc ccactggggc acagaggaag ggtgcccttc gctgggaggg ccaaggaagg 300
ctaccggagg ggcaagtcca gcccatcagg gtcacatcat gggatcacag cagagttcag 360
acagaacaac ttaaaactct gcaaaagaca ctttaaaaac atgatctctt gaaaaataa 420
atcgcaacaa ttttcaactt catgccaatc ganggcngaa gantgtgaat aatgnntaaa 480

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nggaaaactt gaaaaataac ctggatcttn ttggcgga tcaattatnt ccaaat 536

<210> 8276

<211> 534

<212> DNA

<213> Homo sapiens

<400> 8276

attcatatcc acaaagtggg ttggttaagta ttattagtgc aaatttctgc tgacctgcag 60
catttagtcc ataaactttg gatatacctag gcatccatc agagtccagc agatgttttc 120
aattagttta atttcatctc taggcaagtt ctgtttccaa acattagtat tagttgggtga 180
tatttccctt tcatagggaa ggtaaaaaag gttttagtag gtggcaaaca atatttggtt 240
taaactagca ggagacaaag gaattccaag aaaggcaaaa atcctttcag tagttttctg 300
aggaaaatgc acaatatctt caaacttgac cagctggtag ctagtaggca gcaaactctgn 360
atttattctc aaggctgctg ctgnatttgc tagccacaag tgagacaaga nggacactgc 420
atttgatttg gatttggata attctttcct caatgggtca tactcgaagc ataaccccga 480
atttaagtta catttgcctt acctccctct attttaacaa ttgctnaaa gccc 534

<210> 8277

<211> 545

<212> DNA

<213> Homo sapiens

<400> 8277

aatgaaaatt ttaatttata tttttgttaa aatataaaag tagcattaaa ttatcaaagt 60
ctaaattaga ctaaataata atgttatata acccactgaa tggatttata gtttgacagt 120
gttccttgca agtgtctact catcttccat ctttttccct tttttaaatc attctgcccc 180
agtcttcact taatcatcac atgcacttta ttccatcaaa catcacttct caggatcatt 240
ctacctgaag aatcattaag cctgtttaga gcttttccag tcttaaaatt tgtcatcttg 300

actacacatc ccaaggtact acttttctca ctttttctgg ttagccagaa tgttccatta 360
 agaaacaata aaagttgnat agttctctaa gatgaaagat tagtatattc aatggctatt 420
 atattaacca tttaggtgga catcnacaaa aactatcctt atattaattg actggaggtn 480
 ttacntagga aataagtacc ctctctttgc attcacttaa ngctacagat nctcaggaat 540
 caaan 545

<210> 8278

<211> 502

<212> DNA

<213> Homo sapiens

<400> 8278

gatttctctg tattttatat ctctttgtta agtttattaa tgtataccgt ttttcaaata 60
 aacattttga acagcccaaa tcaatcaaag ccatgagatc acaaagtgtt gcttctcgac 120
 acaacattag cttgttcaga aaatccaaaa gccacatcca aagatcaatg atgctacctt 180
 aaagacatga gggaggctcc ttaagaccct agagacacca aggacccac agggccagtc 240
 atatgaacag gctcagaagc cggcttgatc ctcagcacct ntgcaaagcc atcaccaaac 300
 cagcaagtga catgcgctat gtctacggta aagtagaaaa ggcggtcctg gcaaagcttc 360
 cggcggtcac agaccgagga tccgctgaca gcacagcctc aatggcacgc tttgcttctc 420
 tgntgactga aaattttaaa atgacgcctg gccacatntt gngnactgag cttgcccang 480
 nccattttgg cttgaggngt aa 502

<210> 8279

<211> 546

<212> DNA

<213> Homo sapiens

<400> 8279

aaaacaacag aaattttattg tctcacagct gtggaggccg gaaatctgaa accggggggt 60

cagcaagcag ggccgtgccc ccctgtgaag gctttaggga aggatcctgt cctgcctctc 120
 cgggcagctg gtggttttct ggcagtcctt gggttccttg gcttgtggtt gcgtccctca 180
 ctctgatctc cgactccttc acacggctgc cttctccctg cgtgtctgtg ttcattgtggc 240
 catctcctta gaaggacacc agtcatggtg ggtaggggc caccaccagt acctcatggt 300
 gactaattaa tctgcaacga ctgtgtttcc aaacaaggtc acattctgag gtgcttcaag 360
 ttaggacttc agcctatctt ggggtcctca gccctaacca gggcacccac tgcctncggc 420
 atcagctcct gctgggcaag cgcccgggct ggtgctctgc tccctgctta ncccgtgggc 480
 ttgnccacat gacaaggga aatggtctgc ntgcatttaa cttganaaag gaagccctta 540
 cttnct 546

<210> 8280

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8280

gttcaatata gactataatt aaataatgtc ccaattagag tgtgagctca gaaagggagc 60
 ttccaagaaa agcttcacaa aagaaaggac cttggaactg aggtatctga cacctggcac 120
 tcattcaagg aatatttggg gaataaatta taggtggaat attaataggc agcagaaatg 180
 atggtggatg ggagaattcc aagcagacct cggaggcctt gaaatgtttc cctgtataga 240
 aagcagtagg tagtcggtat gaatatttat taggtaaggc tagaaatata ggatgatgtc 300
 atgttgcttt gaattctctt agaaggagta ctgacaatat tctgtggaca gtggggagaag 360
 gtgtgggatt ctgaatggtt tttgagctgg tgaacagctg acagatgagc agtttataga 420
 atggtttctc tgtggaagca ggggaatgga ctggttaagg aagaacctta nttcttaacc 480
 ngatgacacc aangggcttt tgcantngnc cgggtaatgg gcaggaggct caattttata 540
 cc 542

<210> 8281

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8281

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cccaaaaata tatttaataa gcttggtata taaaatcaaa cacttaacat tgtcaacatt   60
tcttcagtta ttcaaactca ctgatatcta actgggagta gtttgtattc tggaagactt  120
cctaagctaa aagtatattt acatatattac aacacatgta aatataactg aagaactact  180
tcaaataatg ttgaaattca cagaattcta gagatttata gttatagttt anaagtatca  240
ccaatttggt tgcaatcaaa tgtncagcac taattatgaa gaatgtttta actattaaac  300
caaaagggga gaaaaactgg gagggaaata tatggngtta aagtcctgtg ataaataactt  360
agaaaattaa aaagtaataa tatacattcg atttaatgac caaaaatttt ttttgaatcc  420
ctggtgncat tttnggagct taaccagtc tgtcanaagg cagtattgct atgctgncng  480
aacctttcac tggctcgtca aagccttgct aaagccgnac agcactggct ggaaaaa   537

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<210> 8282

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8282

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aaaggataat tgaggaaaaa aaaaaatcaa gatttggggg gaattaccta caaagatgta   60
aggtaagtcc gttggttggt gatggcctag ccatcttgtc tggtttttaa aatgtgcttt  120
tctgcctcgt cctgtctcgt ctctctctac cccactcccg ggcgtggaat tccaacttgg  180
tagtgctgga gccctggggt tgatgggggtc atctccaata tgatgtggat tcctttccga  240
tgggttggca ggcagatgga acaaggggtg gaagacttaa aagcaacctn tcaggccagg  300
gggaagggaa ggagctccag gccggttcag accaggaagc ctgggtacca cttctcttgg  360
ctctcttttt cagacctcca ggttgccccc cagagcttca caagtctctc ttcttcttcc  420
ccatccccta atcctcgttc gccctttccc atacaagtgt gtttaatttg gccctttttg  480
ggatctaccc tgaggaagaa gcccctggt taanaggana ggtcttgtgt aggtgggntg  540

```

ggggttccca n

551

<210> 8283

<211> 558

<212> DNA

<213> Homo sapiens

<400> 8283

aaatgttcac ggcagcttta tttgctttat ttttatttag aaattggaaa taatcgaaat	60
atcgggtcaac aggtaaataa ataaactgtg gtatatccat gcaatacaaa atgtggatta	120
ttgatgtaca caaaatgggt gaatgccaaa ataattatgc tgagtagaag cacctcccc	180
cacagtactt gctctgcgat tccactcaga taaaattcta gaatatataa attaaccttt	240
agtgagaggg agcagaccag tggttgcctg aacatggagg acacgaggga cggtttagac	300
cgggggtgtga aactgctgtt ggtgggtgatg gacatgttct ggcgacagct tcacaggcaa	360
atgcatcggc cacttcacgt atgtgcagtt cattacctgt cagttacacc tcaacagagc	420
tgttttaaaa agcaagggtg ggccggcttt ggtggctcac acctgtaatc ccacactttg	480
ggaaggccaa ggaaggagga tcnttgaggc nngaatttta agaccagnct gggcaccaat	540
nngacctnt tcttttta	558

<210> 8284

<211> 524

<212> DNA

<213> Homo sapiens

<400> 8284

acaagggcc aatgtccac gtttatttac atatgaaatg tgtttcatac agttatgatg	60
gatggagtgc ataacacctg acagcagcaa gaccttttga ggaaccgaac attgactaca	120
gtatatcatg caagtatcta tatatacaca aaagaattcc ttttcttaaa aaaaaaaaaa	180
aaaaaggtac aaaacatgtt cagggataaa tacaagatac aaaatgcaaa agaaaacaca	240

aaacaaaacc aaaaaataga actntntcag agaactataa acggaaggga cagaanagta 300
 cctntgctgc attttaataa agcagaacta ccgacgttaa atatacttct tgaaatggct 360
 gaactaaacc cgggtggctc agtgcttaag gtaacggcca attgcaatac acangcggtt 420
 gcattgataa gtcngtggtt gaaagntgng cattccgact ttttaagtncc ataacggttt 480
 gggaatnccc ccagaacang gaacccccact ttttttgcaa ncaa 524

<210> 8285

<211> 472

<212> DNA

<213> Homo sapiens

<400> 8285

ccagatatat tgagggtgac ccctctgaga ttagcacagg agagttagaa agattataaa 60
 gatacacggt cccctccctg ctcccttccc ccaccccccc acccctggac agacacacac 120
 agcacaacag cccctctccc tcccaccccc ccgtacaaat atggcttctg tgtaatatgg 180
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 agaagctcaa caggcctggg gccccagggc tctcttgctg tngtaagagg agtaggcccc 300
 ggcttaggtg aggggctgcc tgtggtgccc aaggccctaa ccagcggctg gaagattcac 360
 aactgtatta cctgaactga aggggggtggg caggcctgnt agantgcant tgcccttttt 420
 ggatgccccat tngagacca gggaaggaaa ancctggggg naaggtggga nc 472

<210> 8286

<211> 483

<212> DNA

<213> Homo sapiens

<400> 8286

agacaattta cacaaattta ttagcctcct atgactcagt aaagcaattg aaaaaatata 60
 gctttataag gcataaatga ttttatgttt taactaaggn actttctggt aaacagngcc 120

catacatttt aggaaatatt tcagtcttta gagaataagt aaggcaaaaa caggtccagg 180
 agtctacaga tgacctcccc tcaccacaag tccaagtcac tttttttttt ttttgaaacg 240
 gngtttcgct nttgttgccc aggctggagt gaatggngtg acctcggntc actgnaacgt 300
 ntgcctccta tattcaagca agtntcctgc gtcagcctcc tgaatagcta ggattacagg 360
 agcatcgctt gaacctggga ggtggagggt gcagtttagcc cgatatgacc ccactgtctc 420
 cantttgggc cccaaantga gactgtctca aaaaatnang gnaaaagaan ggaaaaaaa 480
 naa 483

<210> 8287

<211> 549

<212> DNA

<213> Homo sapiens

<400> 8287

aagacaagat gcaggaagaa gaaattgaga attcactaca taacttccca ccatcaaggc 60
 tttaacacag caacattttg ttttccttaa atgttcctgt ttggtagtcc aatgctcaaa 120
 aactgaagac agtatgtttt ggatcacttt tgtcctggaa gaaaaaaaaa aaagtctagg 180
 ggtcctctac aaatagttat gaccaaagct cagcaaagaa tgggaatgac tgcaattaaa 240
 tgccactggc cctggctcac taacagccag ccagtccttg ctatctggca acctttgtgc 300
 tagcttcctg cctcttgcta cacagagaac acagggcctg tcttagctca ggccaccata 360
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 ggctggaaat ncaagatcan ggtgccagca tgatanggt cttggtgggg gctntctttc 480
 tggcttgnaa aagggcactt tctctttttt aaaatggaat gggnanccta tggatggctg 540
 gacncacan 549

<210> 8288

<211> 552

<212> DNA

<213> Homo sapiens